# MONTHLY WEATHER REVIEW.

WILLIS L. MOORE, Chief U. S. Weather Bureau.

Vol. 38. MARCH, 1910. No. 3

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# Climatological Data for March, 1910.
## DISTRICT No. 1, NORTH ATLANTIC STATES.

WILFORD M. WILSON, District Editor.

### GENERAL SUMMARY.

The month of March, 1910, was remarkable for the total absence of the usual weather conditions that give character to this season of the year. The high temperatures, the scanty precipitation, the large amount of sunshine, the light winds, and hazy condition of the atmosphere were much more in keeping with the conditions that prevail during the fall months in times of drought than during the month of March.

The excess of temperature for the district, as a whole, averaged 7° per day, while the average precipitation was less than 28 per cent of the normal. Such a condition with respect to temperature, though very unusual, is not unprecedented in most sections of the district. March, 1898 and 1903, were generally equally warm, but with these exceptions the current month was probably the warmest March in the past 25 years. The deficiency of precipitation was even more remarkable, the total amount for the month at many stations in the district, being less than that of any previous March since records were kept. At Albany, N. Y., the current month was the driest March in 84 years; at New York City, the driest except in 1854 and 1868 in a like period, while at Addison, N. Y., the precipitation for March was less than that of any other month in the past 20 years. A comparison of the records seems to justify the statement that March, 1910, for the district as a whole, takes rank as the driest March in the past 25 years and among the very driest of the past century.

The following extracts from reports of section directors give a general view of the conditions in the different parts of the district:

*New England Section.*—The month was unusually mild with more than the average amount of sunshine, and no severe storms or high winds. The average temperature for the section, 37.7°, has been exceeded but 3 times during the past 23 years, namely, in 1903, 40.8°; 1902, 38.8°; 1898, 38.4°. The minimum temperature for the month generally occurred on the 18th, when it fell to somewhat below zero at scattered localities in the northern States. The maximum temperature generally occurred on the 25th and was between 70° and 80°, except in some localities in Connecticut where it exceeded 80°, and in the northern States where it was somewhat below 70°. At some stations the maximum was the highest in their records, particularly at Ladd Observatory, Providence, R. I., where the maximum, 78°, was the highest for the month for 79 years.

The average precipitation, 1.44 inch, was the lowest for the section since the beginning of section averages in 1888. The next lowest during this period was 1.49 in 1894, and 2.04 in 1907. At only a small number of stations was the amount for the month greater than 1.80 inch, and in some sections of all of the States it was less than 1 inch. Some observers having long records state that the precipitation was the least of any March for 50 years. The greater portion of the precipitation for the month was on the 1st and 7th. The snowfall was very small, and at the close of the month there was none on the ground, except in the woods and mountainous sections of Maine, New Hampshire, and Vermont. The amount of sunshine considerably exceeded that of any other March since records have been obtained by the Bureau. At the close of the month the grass was becoming green and tree buds were swelling rapidly, and the season was considered to be from 10 days to 2 weeks earlier than the average.

*New York.*—March, 1910, was characterized by a remarkable excess in temperature and a decided deficiency in precipitation. The average temperature for the month was from 15° to more than 20° above that of February, and was everywhere higher than that of any March since 1903. The highest average temperatures for the month occurred near the Pennsylvania line in western New York, where the means were from 1° to 5° above those of Long Island. The monthly means were lowest in the northern counties near the Adirondack region. The temperature was above normal throughout the month, excepting only about 7 days when the deficiency was comparatively slight. The lowest temperatures occurred at nearly all stations on the 18th, and, as a rule, did not fall below 10°, except in the Adirondack and Catskill regions and the upper Hudson Valley. The last decade was remarkably warm. At Binghamton the average temperature for the last 10 days was 57.8°, or about 20° above the normal for the period, a condition that was general at this time over the section, except near the Atlantic coast. The monthly maximum temperatures, which occurred generally on the 29th, ranged from 67° at Indian Lake and Morehouseville to 90° at Mount Hope, surpassing all previous records for March at several stations.

The average precipitation for the section, 1.05 inch, is evidently the least for any March in the last 20 years, the lowest known average for the State in March previous to this year being 1.61 inch. At some stations the precipitation was less than any monthly amount previously recorded. The total for the month varied from a trace in western Albany and southern Washington counties to slightly more than 2 inches in a few localities. Out of 61 stations, only 5 recorded over 2 inches, while 33 recorded less than 1 inch. The snowfall for the month was exceptionally light, the greatest amount recorded at any station being 4 inches. This amount was observed in parts of Madison and Westchester counties. On Long Island the snowfall was probably equal to or greater than that over an equal area in any other part of the section. There was probably no snow at all over a considerable part of the Hudson River Valley.

The continued dry, warm weather resulted in a hazy condition during the last week of the month, such as is not often observed, even in September or October. At the close of the month vegetation had advanced to a remarkable stage, fields were green and flowers were blooming; and, though the ground was comparatively dry and roads were dusty, plants were growing vigorously.

*Pennsylvania.*—The mean temperature for the State was nearly 8° above the normal, and has been exceeded only once in March during the last 23 years. The warmest March of this period was that of 1903, with a mean temperature of 46.4°, or 1.5° above the average of the current month. However, the generally light wind movement, the dryness of the atmosphere, and the large amount of sunshine combined to make this month apparently the mildest, pleasantest, and altogether the most remarkable March on record. There were but few days during the month with the mean temperature below the normal, and the temperature excess was quite uniform throughout the State.

The precipitation averaged but little more than half an inch, it being the driest March on record. The driest March previous was that of 1894, with an average precipitation of 1.63 inch, or very nearly 3 times as much as occurred during this month. The snowfall was extremely light, averaging only 1 inch, and there was a decided absence of the slushy, sloppy, disagreeable conditions usually experienced at this time of the year. Much fog occurred during the first week, delaying navigation in Delaware Bay, and also causing several minor accidents among the smaller craft.

At the close of the month grass plots were becoming green and buds were opening, the season being 2 weeks or more in advance of usual conditions. The top soil, however, was dry in most sections of the State.

*New Jersey.*—From a meteorological standpoint, March, 1910, in New Jersey, was a remarkable month, several of the weather elements being abnormal. Not only was the month unusually mild as a whole, but it was exceptionally dry and pleasant. The mean temperature, 44.5° was the highest recorded for March in a period of 26 years with 2 exceptions, namely, 1898 and 1903, when the State means were 45.1° and 47.6°, respectively. The average precipitation, 1.22 inch, was the smallest recorded for this month in a period of 26 years, with but one exception, namely, March, 1885, when the average was 1.10 inch. If March, 1885, be excepted, it is very probable that the current month is the driest for periods ranging from 40 to 65 years. It is even possible that March, 1910, was drier than March, 1885, since the records of most of the cooperative observers show moderately heavy precipitation for March 1, 1910, the greater part of which, there is reason to believe, occurred between sunset and midnight of February 28, or after the observation for the last day of February had been taken and recorded. It is clearly evident, however, that after March 1, the precipitation throughout the State was inconsequential. In Atlantic County no measurable amounts of rain were received after the 12th, a condition without precedent for the third month of the year.

The wind movement during the month was unusually small, and there was abundant sunshine. Outdoor occupations were pursued almost without interruption, and rapid advance was made in certain farming operations. Vegetation responded to the warmth and sunshine, and at the close of the month the season was unusually forward. Owing to the dryness of the soil, however, farmers were generally unable to plow and rain was badly needed at the end of the month.

*West Virginia.*—The meteorological conditions for the past month, in nearly all respects, were unlike those of any other March of record. The precipitation for the month can only be compared with fall months during seasons of drought, the average for the current month for the State being the lowest of record for any month, except October, 1897 and 1901. The lowest State average for any previous March was 1.40 inch in 1893. The average precipitation for that part of the State included in District No. 1 was 0.44 inch, which is about 14 per cent. of the normal amount.

The average temperature for the month has been exceeded in the March records for the State only in 1903 and 1907. The month was free from sudden temperature changes, the temperature variations from day to day being slight. The winds were exceptionally light, the average hourly move-

ment, as indicated by the records made at Parkersburg and Elkins, being only slightly above the June average. Clear to partly cloudy weather characterized the month, and rain was needed in all sections at its close.

*Maryland and Delaware.*—Although the departure from the normal weather for the month of March was both marked and general, there was a remarkable absence of adverse conditions.

All stations show mean temperatures considerably above normal, the average daily excess for the section being 6.7°. Frost temperatures occurred generally during the first half of the month but during the last decade maximum temperatures, reaching well into the eighties were frequent.

The precipitation was much below normal, the average deficiency being 2.30 inches. Previous rains and snows, however, were generally sufficient to overcome any evil effects that otherwise might have resulted from this lack of moisture. Snow to the depth of little more than 2 inches fell during the first of the month, but remained on the ground a very short time.

The rivers caused no alarm, except during the first days of the month, when it was feared that the previous flood at Port Deposit might be repeated. Dense fogs on Chesapeake Bay caused some delay but no material damage.

*Virginia.*—The month was notable for the large number of clear days, light winds, high mean temperature, and a decided deficiency of precipitation except in the southeastern counties. During the first decade the temperatures were not unusual, but during the second there were many cool nights and general frosts as late as the 18th. From the 19th until the close of the month unusually warm weather prevailed during which the maximum temperatures were exceptionally high for the season.

The storm of February 28 continued until the afternoon of March 1, moderately large amounts of precipitation being measured at many places in Tidewater Virginia on that day. This rain left the streams bank full but no damaging floods resulted. In the southeastern counties the monthly precipitation was nearly equal to the normal, but elsewhere, especially in the northwestern part of the section, very little rain occurred, many stations reporting amounts that ranged from half an inch to a trace. In consequence, some mountain localities are experiencing severe drought and forest fires.

Deep red sunsets were general during the latter part of the month.

### TEMPERATURE.

The average temperature for the district was 45.0°, which is about 7° above the normal, and ranged from 37.7° in New England to 51.2° in Virginia. The excess of temperature was everywhere pronounced, although slightly less along the coast than over the interior. The highest temperatures occurred generally on the 29th and 30th, and the lowest on the 15th in southern and on the 18th in the northern part of the district. During the first decade the average temperature was almost continuously above the normal, but no unusually high maximum temperatures were recorded during this period. The 10th and 11th were cold days, especially over the interior of New England and New York, where minimum temperatures of from 7° to −10° were generally observed and freezing weather occurred as far south as Virginia. During the second decade moderate temperatures prevailed until toward the close when the coldest period of the month set in. The 15th and 16th were the coldest days of the month in the southern part of the district, with minimum temperatures ranging from 16° to 25°, but the lowest temperatures in New England, New York, Pennsylvania, and New Jersey did not occur until the 18th. The cold at this time was quite severe in the elevated parts of New England and New York, where minimum temperatures of from 0° to −10° were general. The last decade was unseasonably warm, especially in the central and southern parts of the district, where maximum temperatures of 80° or over were of frequent occurrence. The 29th and 30th were the warmest days of the month, with temperatures ranging from 83° in Maine to 92° in Virginia.

### PRECIPITATION.

The average precipitation for the district was 1.03 inch and ranged from an average of 1.44 inch in New England to 0.44 inch in West Virginia. Out of 199 stations, having precipitation records for 10 or more years, only one reported the total for the month in excess of the average. The average number of days on which an appreciable amount of rain fell was remarkably small for the month, ranging from 6 in New England and New Jersey to 4 in West Virginia.

About half the total amount of precipitation for the month was recorded at most stations on the 1st and 2d, and resulted from the storm that passed over the district during the closing days of the preceding month. Fair weather prevailed generally from the 2d to the 7th, when general, though light, rains occurred accompanying a depression that passed over New England on that date. The 13th and 14th were rainy days in the northern part of the district, while general rains occurred over the southern section on the 17th. Showers were frequent about the 20th, but from that date to the 30th fair weather prevailed. Light rain occurred generally on the last day of the month.

### RIVER CONDITIONS.

At the opening of the month the rivers were generally near or above flood stage as a result of the warm rains and the rapid melting of large accumulation of snow during the last days of the preceding month. Ice gorges formed in many places and in some instances resulted in considerable damage to property within the flood zone.

At Utica, Herkimer, and Little Falls, on the upper reaches of the Mohawk River, the water reached the maximum stage on the 1st and 2d. At Utica the rise during the 24 hours preceding 8 a. m., of the 1st was 4 feet, which brought the stage to 12.9 feet, nearly 3 feet above flood height. Many cellars were flooded, traffic was interfered with, and much inconvenience occasioned, but the actual damage to property was not great. The water remained above flood stage until the morning of the 4th. At Little Falls the maximum stage of 10.4 feet, which is 4.4 feet above flood height, was attained on the 2d. A heavy ice gorge formed below the city, and for a time the conditions threatened to become serious, but, fortunately, passed away without great damage aside from that occasioned by the flooding of property in the vicinity of the river. High stages were reached at all points below Little Falls, but, as the ice moved out without gorging, no damage resulted.

Considerable anxiety was felt among those interested in the Barge Canal, which parallels the Mohawk River from Rome to its junction with the Hudson above Troy, as to the effect of the high water on the many partly completed locks, dams, and other structures. In this connection the following statement of Mr. R. E. Horton, Resident Engineer of the Department of State Engineer and Surveyor, is of interest:

> With reference to the effect of the high water of this spring on the Barge Canal operations, I would say that there are just at present a large number of locks, movable dams, and other structures completed or nearing completion on the Mohawk, Hudson, Oswego, and Oneida rivers. These structures were subjected to severer conditions the past spring than are ever likely to occur again with the same quantity of discharge in the rivers. The reason for this is as follows: When the Barge Canal is completed the reaches between successive locks and dams will have been dredged out, forming channels having greater widths and depths, as a rule, than the present natural river channels. With a given quantity of discharge, therefore, the stage of water will not be as great after the Barge Canal is completed as at present. Very fortunately there was but little damage done either to completed or uncompleted structures during the high water of the past spring. We do not consider, however, that the recent floods were nearly as severe or of as large magnitude as are likely to occur from time to time.
>
> Of course, the operation of the Barge Canal will in a measure be dependent both on climate and weather, the former as affecting the duration of the navigation season and the latter as affecting the facility of operation and the danger of interruption. One of the important problems all the way through has been to adopt what might be called consistent high and low navigable stages so that there would not be, in the first place, any undue interruption of navigation at a given point as the result of floods or their causes; and second, so that the amount of interruption from these causes at any given place would not be inconsistent with the amount of similar interruption at other points along the canal. In deciding these problems the question of frequency and magnitude of floods and probability of floods exceeding a given magnitude are prime factors.

For an account of the formation of an ice gorge in the Hudson River near Albany and the consequent high water at Albany and Troy, and also the general situation on the upper Susquehanna at this time, reference is made to the reports of the officials in charge, local offices of the Weather Bureau at Albany

and Binghamton, published in the February number of the REVIEW.

The following report on the Susquehanna River and its principal tributaries during the months of February and March, 1910, with special reference to the ice flood that began on the night of February 27 in the North and West branches and attained its maximum in the main river on March 3, is furnished by the official in charge, local office, Weather Bureau at Harrisburg, Pa.:

The river and its main branches continued open after the January ice flood, with about the normal flow for the season, until the night of February 6 when they began to freeze again and by the 8th they were generally ice-bound, remaining so until the night of February 17 when, due to the warmer weather that set in on the 14th and the general rain that occurred on the 17th, local movements of ice occurred on the latter date in the West Branch and the main river, the most important occurring in the vicinity of Renovo, where the ice, after having started, gorged a short distance below the town causing the water to register 15 feet on the Renovo gage by 8 a. m. of the 18th, 1 foot below the flood stage. No important changes occurred in the general conditions until February 20 when a general rain caused local movements of ice in the lower portions of the North and West branches, extending into the main river and reaching Harrisburg on the afternoon of the 22d. The ice began to shove at Harrisburg early in the afternoon of the 22d, but did not break up until about 5 p. m., when it began to pass the Walnut Street Bridge quietly on 7 feet of water. The ice gorged some distance below Harrisburg where it remained until March 1. On February 26, Saturday, the following was printed on the Harrisburg weather map: "The higher temperature and general, though probably light to moderate, rains indicated for the Susquehanna Valley to-night and Sunday will probably cause a general rise in the river and all its tributaries."

By 10 a. m. of Monday, February 28, all ice remaining in the Susquehanna River and its principal tributaries between Harrisburg and Binghamton and from Sunbury to Clearfield was moving and all streams of the system were rising rapidly. The ice gorge at Renovo started about 9 a. m., February 28, the highest stage of water being reported as about 25 feet. Flood warnings were issued and wired to Wilkes-Barre and Towanda on the morning of March 1, Wilkes-Barre being advised that a maximum stage of about 24 feet might be expected and Towanda that a maximum stage of about 17 feet was indicated for that place. On the morning of March 2, Wilkes-Barre was advised that the maximum stage would likely reach 25 feet. The following are the maximum stages reported at the several river stations during the flood of February 28 to March 3:

| Station. | Flood stage. | Highest stage. | Date. |
|---|---|---|---|
| | *Feet.* | *Feet.* | |
| Huntingdon | 24 | 9.1 | Mar. 1, 2, 3 |
| Clearfield | 9 | 6.9 | Mar. 1 |
| Renovo | 16 | (about)25.0 | Mar. 1 |
| Williamsport | 20 | 16.4 | Mar. 1 |
| Towanda | 16 | 18.4 | Mar. 2 (D. N.) |
| Wilkes-Barre | 20 | 26.0 | Mar. 3 (p. m.) |
| Selinsgrove | 17 | 14.6 | Mar. 3 (a. m.) |
| Harrisburg | 17 | 17.2 | Mar. 3 (all day) |

The damage resulting from the flood was confined mainly to the North Branch and the main river, except in the West Branch at Renovo and vicinity where the damage caused from flooding as a result of the ice gorge was estimated at about $5,000. At Towanda the damage to property was small, but much inconvenience resulted by reason of the flooding of cellars, etc. In many places where the public roads cross low ground they were flooded to such a depth as to render them impassable for several days, and some persons who attempted to pass over such places had narrow escapes from drowning. No property of consequence was carried away or destroyed and no lives were lost. At Wilkes-Barre, where the minimum stage reached 6 feet above the flood mark, considerable loss resulted, the amount of damage being estimated at about $15,000. At Harrisburg and vicinity, outside of the loss resulting from the closing down of a few industrial plants for a day or two, the loss was trifling, probably not exceeding $100. Several lives were lost, however, in and near the city of Harrisburg during the high waters, as a result of foolhardiness in venturing on the river in canoes and boats. As in the January flood, the damage at Port Deposit and other places below Harrisburg was great. The town of Port Deposit was partly inundated and the streets in places were filled with ice, rendering many houses uninhabitable, some of which had scarcely become fit for occupation as a result of the damage they sustained in the ice flood of January. The total loss caused by ice and water in the lower river was doubtless great, but it is impossible to fix its money value. On the whole it is believed the people of the Susquehanna Valley were extremely fortunate in having sustained so little damage from the spring breakup. The flood was largely the result of water from melting snow caused by a period of unusually warm weather for the season in the river basin. Had heavy rains occurred at the time the snow was melting so rapidly, as sometimes happens in spring, flood stages would have been general and losses great as the depth of snow in the mountains was greater than for several years, especially within the drainage area of the North Branch where nearly all the snow that had fallen during the winter remained unmelted. In addition to the daily forecasts and river information on the map and the warnings above noted, information as to the breaking of the ice gorge at Renovo was wired promptly to Williamsport, and towns below Harrisburg were advised from time to time as conditions seemed to warrant.

Continued high temperatures during the first few days in March caused the snow in the mountains to melt rapidly, which kept the rivers at high stages, but they fell slowly from March 3 to 6. A general, though not heavy, rain on the 6th started the Juniata, North, and West branches to rising again. On the morning of March 7 Wilkes-Barre was advised by wire that the river there, which was then 18.7 feet, would probably reach the flood stage again within 20 hours but would not likely exceed 21 feet; at 8 a. m., on March 8, it registered 20.8 feet and began to fall during the day and was below the flood mark on March 9, after which date no rise of consequence occurred in any of the streams of the river system. March closed with all streams much lower than usual for the time of year, the rainfall for the month being the least ever recorded at Harrisburg during March.

### MISCELLANEOUS.

The average number of hours of sunshine, taken from the records of 15 stations, was 232, which is 64 per cent of the possible and about 72 hours more than the average for February, 1910. The number of hours of sunshine ranged from 187 (51 per cent of the possible) at Eastport, Me., to 276 (74 per cent of the possible) at Mount Weather, Va. There were 13 days during the month when the sunshine averaged 80 per cent or more of the possible, 14 days with an average between 20 and 80 per cent, and 4 days with less than 20 per cent.

The average number of rainy days was 5; clear, 16; partly cloudy, 9; and cloudy, 6.

### ANNUAL REPORT OF NEW YORK STATE WATER SUPPLY COMMISSION.

The fifth annual report of the State Water Supply Commission of New York, prepared under the direction of Henry H. Persons, president, and Walter McCulloh, consulting engineer, for the year ending February 1, 1910, has just been issued.

The report contains 492 pages of printed matter, 32 half tones, and numerous diagrams, charts, and drawings.

The arrangement of the report follows the threefold nature of the statuatory jurisdiction of the Commission. Part I relates to municipal water supply; Part II discusses river improvements; and Part III deals with the relation of the State to water storage and power development.

Under the caption "State conservation of water power" the Commission says:

The time has come when the State, in the exercise of its function of furthering the public welfare, should undertake the control of its rivers so that the direct benefits of increased water power and the indirect advantages in the prevention of floods, the improvement of navigation, and the protection of sources of water supply may be equally distributed among all citizens of the State, and a just compensation assured to the public in return for the use of public wealth. The next generation will either commend our efforts for prompt action or condemn us for inexcusable delay.

That part of the report dealing with "rainfall records and studies" is of special interest to climatologists on account of the attempt made to deduce a "long-term mean dependable precipitation" for stations having short records.

In discussing the isohyetal map of the State, constructed from the computed long-term means and particularly the relation of mean annual precipitation to elevation, the report says:

It was found impossible to deduce any general law that would apply to the entire State and express with any degree of accuracy the relation between the mean annual precipitation and elevations. However, by separating the records according to the Weather Bureau subdivisions of the State, namely, northern plateau, southern plateau, etc., a fairly uniform relation is found to exist in each of these general dividions, where climatic and topographic conditions are fairly uniform. In general the precipitation increases with elevation, being greatest at the points highest above sea level, but two noticeable exceptions occur, namely, in the Mohawk Valley and on the eastern and southern shores of Lake Ontario, in which districts, according to the available records, the precipitation decreases with altitude.

The highest altitudes in the Adirondack region have the highest rate of precipitation and are, therefore, the most prolific in yield of water per square mile of watershed, making their streams more valuable for power purposes. The average annual dependable precipitation in the watershed of the Hudson River above Mechanicville is 43 inches, the average rainfall in the watershed of the Sacandaga is 45 inches; in the watershed of the Schroon River it is 38 inches, in the watershed of the Raquett River above Piercefield it is 40 inches and on the Genesee River above Portage it is 36 inches. The highest dependable annual rainfall, based upon long-term available records, is 53.6 inches, in the Scanadaga Valley, in the vicinity of Wells, and the lowest precipitation is 25.3 inches, in the valley of the Genesee River, near Mount Morris.

That part of the report, dealing with the testing of different types of rain gages that have been used in the State since 1826, carried on in cooperation with the local office, Weather Bureau, at Ithaca, is also of interest. The report says:

The data obtained indicates clearly that the percentage of error in the old records, so far as the type of gage is concerned, is probably very small, probably never exceeding 5 per cent, if observations were carefully taken. The average variation is very much less than this. Exact information as to the type of gage used in connection with any particular one of the old records is very difficult to obtain. This fact taken together with the indications of the experiments seems to warrant the conclusion that a correction factor to be applied to precipitation records secured by the use of old type gages is not justified. The errors that are made in measuring and recording precipitation, whatever the type of gage used, are undoubtedly of sufficient magnitude to make any corrections for the type of gage used an unwarranted refinement.

TABLE 1—*Climatological data for March, 1910. District No. 1, North Atlantic States.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | Number of rainy days, .01 inch or more. | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Maine.* | | | | | | | | | | | | | | | | | | |
| Bar Harbor | Hancock | 20 | 24 | 37.1 | + 5.9 | 74 | 25 | 9 | 18 | 35 | 3.10 | − 2.46 | 2.30 | 0.5 | 6 | 18 | 5 | 8 | sw. | Wm. Miller. |
| Cornish | York | 778 | 55 | 36.7 | + 7.4 | 74 | 25 | 0 | 18 | 44 | 1.76 | − 3.62 | 0.66 | 3.5 | 5 | 16 | 9 | 6 | w. | T. H. West. |
| Eastport | Washington | 53 | 38 | 34.4 | + 5.5 | 57 | 29 | 9 | 18 | 19 | 1.98 | − 2.30 | 1.00 | 4.8 | 11 | 9 | 10 | 12 | s. | U. S. Weather Bureau. |
| Fairfield | Somerset | 90 | 25 | 36.2 | + 8.4 | 72 | 25 | 6 | 18 | 43 | 1.71 | − 1.29 | 0.92 | ..... | 4 | 14 | 10 | 7 | ..... | Edward F. Parker. |
| Farmington | Franklin | 450 | 13 | 34.0 | + 3.8 | 71 | 29 | − 4 | 18 | 41 | 1.41 | − 3.20 | 0.60 | 6.0 | 6 | 15 | 7 | 9 | nw. | State Normal School. |
| Gardiner | Kennebec | 163 | 18 | 36.4 | + 6.1 | 73 | 25 | 6 | 18 | 40 | 1.98 | − 2.16 | 1.24 | ..... | 5 | 20 | 2 | 9 | sw. | Samuel D. Soule. |
| Greenville | Piscataquis | 1,000 | 6 | 29.0 | ..... | 63 | 25 | −11 | 18 | 40 | 2.18 | ..... | 0.88 | 8.6 | 5 | ..... | ..... | ..... | ..... | U. S. Weather Bureau. |
| Houlton | Aroostook | 362 | 8 | 29.0 | ..... | 51 | 26 | − 2 | 18 | 40 | 1.40 | ..... | 0.50 | 6.0 | 4 | 14 | 3 | 14 | nw. | Bangor & Aroostook R. R. |
| Lewiston | Androscoggin | 185 | 36 | 36.3 | + 7.5 | 74 | 25 | 8 | 18 | 36 | 1.90 | − 2.74 | 0.91 | 1.5 | 6 | 14 | 10 | 7 | nw. | Union Water Power Co. |
| Madison | Somerset | 257 | 7 | 31.8 | ..... | 70 | 26 | − 3 | 18 | 36 | 1.91 | ..... | 0.93 | ..... | 4 | 20 | 2 | 9 | s. | Wm. Jardine. |
| Millinocket | Penobscot | 386 | 7 | 32.2 | ..... | 69 | 25 | 0 | 11† | 43 | 1.66 | ..... | 1.20 | 3.2 | 6 | 12 | 5 | 14 | sw. | H. S. Ferguson. |
| North Bridgton | Cumberland | 450 | 17 | 36.4 | + 7.5 | 73 | 25 | 2 | 18 | 44 | 1.65 | − 3.20 | 0.76 | 4.0 | 4 | 11 | 14 | 6 | sw. | G. E. Chadbourne. |
| Orono | Penobscot | 129 | 41 | 36.2 | + 8.2 | 73 | 25 | 4 | 18 | 37 | 1.91 | − 2.24 | 1.03 | 1.0 | 7 | 13 | 5 | 13 | sw. | Agricultural Exp. Station. |
| Patten | ...do | 550 | 8 | 28.4° | ..... | 60° | 25 | − 8° | 19 | 48° | 0.93° | ..... | 0.50° | 6.0° | 7 | 14° | 5° | 9° | w°. | Bangor & Aroostook R. R. |
| Portland | Cumberland | 99 | 39 | 37.2 | + 5.2 | 74 | 25 | 11 | 18 | 32 | 1.62 | − 2.13 | 0.72 | T. | 7 | 15 | 11 | 5 | s. | U. S. Weather Bureau. |
| Presque Isle | Aroostook | ..... | ..... | 27.4 | ..... | 48 | 24 | −13 | 18 | 38 | 0.92 | ..... | 0.37 | 6.7 | 5 | 16 | 4 | 11 | s. | San Lorenzo Merriman. |
| Rumford Falls | Oxford | 505 | 17 | 33.6 | + 6.1 | 66 | 25 | 3 | 18 | 36 | 1.78 | − 2.43 | 0.75 | 6.0 | 4 | 22 | 4 | 5 | nw. | Chas. A. Mixer. |
| Winslow | Kennebec | 90 | 15 | 35.0 | ..... | 72 | 25 | 6 | 18 | 40 | 1.86 | ..... | 1.10 | 1.0 | 3 | 19 | 7 | 5 | w. | Hollingsw'th & Whitney Co. |
| *New Hampshire.* | | | | | | | | | | | | | | | | | | | | |
| Alstead Center | Cheshire | 1,130 | 6 | 35.2 | + 5.9 | 69 | 29 | 6 | 18 | 29 | 1.01 | − 2.68 | 0.53 | 2.0 | 5 | 18 | 7 | 6 | nw. | Frank Dewing. |
| Benton | Grafton | ..... | ..... | 33.8 | ..... | 64 | 25 | 0 | 18 | 36 | 1.42 | ..... | 0.43 | T. | 6 | 17 | 9 | 5 | nw. | P. C. Bartlett. |
| Bethlehem | ...do | 1,470 | 18 | 33.4 | + 6.9 | 66 | 24† | − 8 | 18 | 40 | 1.66 | − 1.31 | 0.58 | 6.5 | 8 | 15 | 9 | 7 | sw. | Benjamin Tucker. |
| Concord | Merrimack | 350 | 50 | 38.0 | + 6.5 | 73 | 25 | 11 | 18 | 38 | 1.28 | − 2.12 | 0.68 | 1.4 | 6 | 10 | 12 | 9 | nw. | U. S. Weather Bureau. |
| Durham | Stafford | 88 | 15 | 37.8 | + 6.3 | 76 | 25 | 7 | 18 | 41 | 0.14 | − 4.29 | 0.05 | ..... | 4 | 22 | 3 | 6 | sw. | Agricultural Exp. Station. |
| Franklin | Merrimack | 440 | 11 | 37.4 | ..... | 73 | 25 | 6 | 18 | 42 | 1.38 | ..... | 0.57 | 3.0 | 6 | 18 | 8 | 5 | nw. | Dr. C. P. Webster. |
| Grafton | Grafton | 863 | 24 | 34.2 | + 6.7 | 72 | 25 | − 2 | 18 | 41 | 1.02 | − 1.99 | 0.40 | 2.0 | 5 | 17 | 7 | 7 | nw. | Perley R. Kimball. |
| Hanover | ...do | 603 | 76 | 35.9 | + 8.5 | 72 | 29 | − 1 | 18 | 41 | 0.92 | − 1.61 | 0.55 | 0.6 | 6 | 13 | 9 | 9 | nw. | Dartmouth College. |
| Keene | Cheshire | 506 | 25 | 37.9 | + 7.3 | 75 | 29 | 3 | 18 | 47 | 1.02 | − 2.06 | 0.55 | T. | 4 | 18 | 8 | 5 | nw. | Samuel Wadsworth. |
| Nashua | Hillsboro | 125 | 25 | 39.6 | + 7.4 | 77 | 25 | 12 | 18 | 38 | 1.27 | − 2.89 | 0.65 | 0.0 | 6 | 15 | 10 | 6 | sw. | Jackson Company. |
| Newton | Rockingham | ..... | 22 | 37.6* | + 4.8 | 78* | 25 | 5* | 18 | 40* | 1.39* | − 2.21 | 0.70* | T. * | 5* | 14* | 13* | 3* | *nw. | W. C. Gale. |
| Plymouth | Grafton | 500 | 22 | 34.0 | + 7.1 | 65 | 25† | 3 | 11 | 39 | 1.10 | − 2.64 | 0.48 | 2.2 | 5 | 18 | 3 | 10 | w. | Hattie G. Trow. |
| *Vermont.* | | | | | | | | | | | | | | | | | | | | |
| Bloomfield | Essex | ..... | 3 | 31.5 | ..... | 67 | 25† | −17 | 18 | 47 | 1.28 | ..... | 0.55 | 4.0 | 5 | 15 | 8 | 8 | s. | P. S. Tirrill. |
| Cavendish | Windsor | 910 | 7 | 34.3 | ..... | 74 | 29 | 0 | 18 | 38 | 0.60 | ..... | 0.42 | T. | 3 | ..... | ..... | ..... | ..... | Miss M. A. Kingsbury. |
| Chelsea | Orange | 830 | 15 | 32.6 | + 7.6 | 68 | 29 | − 7 | 18 | 39 | 0.65 | − 3.10 | 0.25 | ..... | 4 | 13 | 7 | 11 | w. | W. F. Dewey. |
| Jacksonville | Windham | 1,000 | 25 | 36.8 | + 9.6 | 73 | 24 | 13 | 5† | 48 | 0.57 | − 3.71 | 0.35 | 0.0 | 6 | 25 | 4 | 2 | sw. | Miss Martha French. |
| Manchester | Bennington | 980 | 11 | 37.2 | ..... | 70 | 29† | 5 | 18 | 36 | 1.43 | ..... | 0.63 | T. | 4 | 12 | 16 | 3 | sw. | N. M. Canfield. |
| St. Johnsbury | Caledonia | 711 | 17 | 36.1 | + 9.6 | 74 | 29 | − 8 | 18 | 45 | 1.46 | − 1.56 | 0.46 | 4.5 | 7 | 13 | 10 | 8 | nw. | Fairbanks Museum. |
| Woodstock | Windsor | 700 | 18 | 35.0 | + 7.3 | 67 | 30 | 6 | 18 | 36 | 0.91 | − 2.31 | 0.35 | 0.0 | 4 | 12 | 7 | 12 | ..... | John S. Eaton. |
| *Massachusetts.* | | | | | | | | | | | | | | | | | | | | |
| Amherst | Hampshire | 222 | 21 | 40.2 | + 7.5 | 78 | 29 | 12 | 18 | 42 | 1.37 | − 2.11 | 0.60 | T. | 8 | 21 | 7 | 3 | nw. | Agricultural Exp. Station. |
| Blue Hill | Norfolk | 640 | 26 | 39.1 | + 6.8 | 76 | 25 | 12 | 18 | 32 | 1.77 | − 2.44 | 0.69 | 0.6 | 7 | 16 | 6 | 9 | w. | Blue Hill Observatory. |
| Boston | Suffolk | 124 | 40 | 42.0 | + 7.0 | 78 | 25 | 17 | 18 | 28 | 1.25 | − 2.83 | 0.69 | 0.2 | 7 | 11 | 9 | 11 | w. | U. S. Weather Bureau. |
| Chestnut Hill | ...do | 124 | 30 | 41.8 | + 7.5 | 78 | 25 | 14 | 18 | 36 | 1.16 | − 2.89 | 0.44 | ..... | 7 | 27 | 1 | 3 | ..... | Metropolitan Water Board. |
| Clinton | Worcester | 370 | 14 | 39.2 | ..... | 77 | 29 | 12 | 17 | 35 | 1.28 | ..... | 0.71 | ..... | 7 | 21 | 2 | 8 | ..... | Do. |
| Concord | Middlesex | 139 | 20 | 39.4 | + 6.2 | 78 | 25 | 12 | 18 | 38 | 1.44 | − 1.87 | 0.66 | 0.1 | 7 | 11 | 14 | 6 | nw. | Fred. A. Tower. |
| Fall River | Bristol | 200 | 44 | 40.8 | + 4.8 | 75 | 29 | 16 | 18 | 29 | 1.86 | − 2.67 | 0.76 | 3.0 | 10 | 9 | 17 | 5 | sw. | C. V. S. Remington. |
| Fitchburg | Worcester | 550 | 27 | 40.0 | + 8.2 | 76 | 25† | 10 | 18 | 36 | 1.14 | − 2.73 | 0.58 | T. | 5 | 22 | 6 | 3 | w. | Dr. A. P. Mason. |
| Framingham | Middlesex | 160 | 30 | 41.6 | + 7.4 | 77 | 25† | 12 | 18 | 38 | 0.77 | − 3.72 | 0.38 | 0.2 | 6 | ..... | ..... | ..... | ..... | Metropolitan Water Board. |
| Hyannis | Barnstable | 31 | 19 | 39.4 | + 2.7 | 73 | 29 | 16 | 18 | 27 | 2.45 | − 2.25 | 1.05 | 2.0 | 6 | 16 | 10 | 5 | sw. | C. F. Sleeper. |
| Lawrence | Essex | 51 | 26 | 39.4 | + 6.8 | 77 | 25 | 11 | 18 | 38 | 1.32 | − 2.36 | 0.65 | ..... | 6 | 13 | 16 | 2 | nw. | Essex Company. |
| Lowell | Middlesex | 100 | 25 | 41.2 | + 8.7 | 75 | 29 | 12 | 18 | 34 | 0.74 | − 3.49 | 0.48 | ..... | 3 | ..... | ..... | ..... | ..... | Prop's Locks and Canals. |
| Middleboro | Plymouth | 53 | 24 | 39.3 | + 5.1 | 77 | 29 | 5 | 18 | 34 | 1.70 | − 2.70 | 0.80 | 0.8 | 6 | 5 | 14 | 12 | ne. | A. R. Gurney. |
| Monson | Hampden | 420 | 26 | 39.7 | + 7.5 | 76 | 25† | 11 | 18 | 38 | 1.44 | − 2.56 | 0.60 | 1.0 | 8 | 22 | 6 | 3 | nw. | Dr. G. E. Fuller. |
| Nantucket | Nantucket | 15 | 24 | 39.2 | + 2.4 | 68 | 29 | 24 | 18 | 28 | 2.74 | − 1.24 | 1.31 | 2.8 | 11 | 15 | 8 | 8 | sw. | U. S. Weather Bureau. |
| New Bedford | Bristol | 88 | 98 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | City Engineer. |
| Norfolk | Norfolk | 244 | 7 | 42.6 | ..... | 80 | 25 | 18 | 18 | 35 | 1.20 | ..... | 0.70 | T. | 4 | 10 | 7 | 14 | w. | Miss Ruby H. Martyn. |
| Northampton | Hampshire | 205 | 2 | 41.4 | ..... | 77 | 25 | 20 | 16 | 38 | 1.67 | ..... | 1.32 | T. | 2 | 20 | 4 | 7 | nw. | D. E. Hoxie. |
| Plymouth | Plymouth | ..... | 25 | 38.7 | ..... | 74 | 30 | 12 | 18 | 31 | 1.85 | ..... | 0.78 | 2.0 | 6 | 13 | 8 | 10 | e. | Laura B. Knapp. |
| Provincetown | Barnstable | 40 | 23 | 39.4 | + 3.8 | 72 | 29 | 24 | 15† | 30 | 1.81 | − 2.33 | 0.68 | 0.8 | 5 | 23 | 0 | 8 | sw. | Gideon Bowley. |
| Rockport | Essex | 25 | 8 | 39.8 | ..... | 77 | 25 | 19 | 18 | 33 | 2.38 | ..... | 0.90 | ..... | 5 | 17 | 8 | 6 | nw. | C. F. B. Bearse. |
| Rutland | Worcester | 1,160 | 8 | 37.6 | ..... | 73 | 25† | 8 | 2 | 38 | 0.81 | ..... | 0.51 | 0.2 | 7 | 25 | 4 | 2 | sw. | State Sanatorium. |
| South Egremont | Berkshire | 764 | 8 | 35.0 | ..... | 73 | 30 | 8 | 18 | 36 | 1.65 | ..... | 0.56 | ..... | 6 | ..... | ..... | ..... | nw. | Roscoe C. Taft. |
| Turners Falls | Franklin | 200 | 19 | 38.9 | + 5.3 | 73 | 25 | 15 | 18 | 38 | 1.54 | − 2.61 | 0.82 | 0.1 | 4 | ..... | ..... | ..... | ..... | Turners Falls Co. |
| Westboro | Worcester | 298 | 36 | 42.4 | + 8.4 | 79 | 29 | 15 | 18 | 41 | 1.60 | − 2.82 | 0.50 | T. | 5 | ..... | ..... | ..... | ..... | G. S. Newcomb. |
| Williamstown | Berkshire | 711 | 29 | 39.0 | +10.0 | 72 | 30 | 11 | 18 | 33 | 1.02 | − 2.06 | 0.47 | 0.5 | 5 | 13 | 12 | 6 | w. | Williams College. |
| Worcester | Worcester | 518 | 18 | 40.6 | + 6.4 | 75 | 25 | 12 | 18 | 30 | 0.92 | − 3.44 | 0.37 | T. | 6 | 17 | 8 | 6 | ne. | G. W. Swan. |
| *Rhode Island.* | | | | | | | | | | | | | | | | | | | | |
| Block Island | Newport | 26 | 30 | 39.0 | + 3.1 | 68 | 29 | 21 | 18 | 28 | 1.58 | − 2.79 | 0.97 | 2.2 | 9 | 16 | 7 | 8 | sw. | U. S. Weather Bureau. |
| Bristol | Bristol | 53 | 24 | 40.4 | + 5.1 | 71 | 29 | 17 | 18 | 27 | 1.21 | − 3.22 | 0.60 | 2.0 | 9 | 18 | 10 | 3 | s. | N. G. Herreshoff. |
| Kingston | Washington | 250 | 21 | 39.3 | + 5.0 | 79 | 29 | 8 | 18 | 42 | 1.62 | − 3.89 | 0.62 | 3.5 | 8 | 16 | 8 | 7 | w. | Nathaniel Helme. |
| Narragansett Pier | Newport | 22 | 28 | 40.2 | + 5.8 | 82 | 29 | 11 | 18 | 53 | 1.52 | − 3.06 | 0.52 | 2.5 | 9 | 19 | 7 | 5 | sw. | U. S. Weather Bureau. |
| Providence | Providence | 182 | 6 | 41.6 | + 5.9 | 79 | 25 | 16 | 18 | 31 | 1.32 | − 2.76 | 0.60 | 0.5 | 9 | 12 | 12 | 7 | nw. | Do. |
| *Connecticut.* | | | | | | | | | | | | | | | | | | | | |
| Bridgeport | Fairfield | 20 | 17 | 42.2 | ..... | 83 | 29 | 16 | 18 | 46 | 1.86 | ..... | 0.72 | 2.4 | 8 | 16 | 11 | 4 | s. | William Jennings. |
| Canton | Hartford | 900 | 49 | 38.3 | + 6.8 | 76 | 29 | 14 | 16 | 44 | 0.69 | − 3.41 | 0.42 | 0.0 | 5 | 17 | 8 | 6 | nw. | G. J. Case. |
| Colchester | New London | 370 | 24 | 40.0 | + 5.5 | 79 | 30 | 10 | 18 | 37 | 3.64 | − 0.44 | 2.05 | T. | 7 | 16 | 7 | 8 | w. | S. P. Willard. |
| Cream Hill | Litchfield | 1,300 | 14 | 38.0 | + 4.2 | 76 | 30 | 12 | 18 | 42 | 0.90 | − 3.54 | 0.34 | 1.0 | 6 | 19 | 5 | 7 | s. | C. L. Gold. |
| Danielson | Windham | 300 | 8 | 36.8 | ..... | 72 | 25 | 11 | 18 | 37 | 1.78 | ..... | 0.90 | 0.5 | 5 | 17 | 9 | 5 | s. | F. E. Bitgood. |
| Hartford | Hartford | 159 | 6 | 42.3 | + 7.3 | 78 | 25† | 18 | 18 | 33 | 0.95 | − 3.37 | 0.36 | 0.2 | 9 | 12 | 14 | 5 | s. | U. S. Weather Bureau. |
| Hawleyville | Fairfield | 600 | 12 | 41.8 | + 5.4 | 80 | 29 | 13 | 18 | 42 | 1.42 | − 4.30 | 0.60 | 2.0 | 6 | 17 | 9 | 5 | w. | Edson N. Hawley. |
| New Haven | New Haven | 107 | 123 | 41.8 | + 6.4 | 81 | 29 | 19 | 18 | 42 | 1.16 | − 3.29 | 0.37 | 1.0 | 7 | 11 | 12 | 8 | s. | U. S. Weather Bureau. |
| New London | New London | 47 | 40 | 42.6 | + 7.5 | 80 | 29 | 18 | 18 | 35 | 1.46 | − 3.15 | 0.97 | 1.0 | 6 | 17 | 10 | 4 | sw. | Thos. C. Dillon. |
| North Grosvenordale | Windham | 400 | 20 | 39.6 | + 5.6 | 78 | 25† | 11 | 17 | 41 | 0.81 | − 3.56 | 0.20 | ..... | 6 | 16 | 11 | 4 | sw. | Grosvenor Dale Co. |
| Norwalk | Fairfield | 116 | 20 | 39.8 | + 6.0 | 80 | 29 | 11 | 18 | 44 | 1.32 | − 2.30 | 0.54 | 2.0 | 7 | 18 | 9 | 4 | sw. | Geo. C. Comstock. |
| Southington | Hartford | 140 | 41 | 41.0 | + 7.7 | 79 | 29 | 12 | 18 | 43 | 1.00 | − 3.20 | 0.55 | 0.5 | 5 | 13 | 16 | 2 | nw. | Luman Andrews. |
| Storrs | Tolland | 640 | 22 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Agricultural Exp. Station. |
| Torrington | Litchfield | 625 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Edwin H. Forbes. Ph. D. |
| Voluntown | New London | 260 | 25 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Rev. E. Dewhurst. |
| Waterbury | New Haven | 400 | 35 | 43.0 | + 9.5 | 82 | 29 | 14 | 18 | 52 | 1.16 | − 3.09 | 0.57 | 0.5 | 7 | ..... | ..... | ..... | ..... | N. J. Welton. |
| *New York.* | | | | | | | | | | | | | | | | | | | | |
| Addison | Steuben | 1,000 | 20 | 43.0 | + 9.2 | 84 | 24† | 14 | 18 | 53 | 0.29 | − 2.27 | 0.15 | 0.2 | 5 | 20 | 6 | 5 | nw. | H. R. Ainsworth. |
| Albany | Albany | 97 | 89 | 40.9 | + 8.8 | 76 | 29 | 14 | 18 | 30 | 0.52 | − 2.22 | 0.37 | 0.1 | 5 | 15 | 10 | 6 | s. | U. S. Weather Bureau. |
| Alfred | Allegany | ..... | 0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Prof. O. S. Morgan. |
| Amsterdam | Montgomery | 277 | 6 | 37.8 | ..... | 72 | 29† | 8 | 18 | 37 | 0.70 | ..... | 0.55 | T. | 3 | 21 | 4 | 6 | w. | Emery Elwood. |
| Athens | Greene | 90 | 8 | 41.4 | ..... | 80 | 29 | 13 | 18 | 32 | 0.59 | ..... | 0.40 | T. | 4 | 14 | 13 | 4 | sw. | E. C. Brooks. |
| Ballston Lake | Saratoga | 400 | 6 | 37.6 | ..... | 73 | 29 | 9 | 18 | 35 | 0.55 | ..... | 0.22 | 0.4 | 5 | 15 | 11 | 5 | w. | Geo. R. Schauber. |

TABLE 1—*Climatological data for March, 1910. District No. 1*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *New York*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Bedford | Westchester | 450 | 19 | 43.6 | + 6.2 | 85 | 29 | 13 | 18 | 46 | 0.40 | − 3.24 | 0.15 | 1.5 | 5 | 25 | 4 | 2 | ..... | Dr. L. Rosenberg. |
| Binghamton | Broome | 875 | 19 | 41.6 | + 9.6 | 79 | 29 | 16 | 18 | 40 | 0.68 | − 1.96 | 0.44 | 0.4 | 5 | 15 | 4 | 12 | w. | U. S. Weather Bureau. |
| Bouckville | Madison | 1,350 | 13 | 39.4 | + 9.1 | 75 | 29 | 12 | 18 | 31 | 1.16 | − 2.39 | 0.25 | 4.0 | 8 | 15 | 4 | 12 | sw. | L. W. Griswold. |
| Boyds Corners | Putnam | 560 | 28 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.32 | − 3.32 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Thomas Manning. |
| Carmel | do | 500 | 18 | 39.4 | + 4.4 | 80 | 29 | 12 | 18 | 39 | 1.28 | − 3.61 | 0.65 | 1.0 | 6 | 15 | 8 | 8 | w. | Do. |
| Chatham | Columbia | 470 | 9 | 40.6 | ..... | 76 | 29 | 10 | 18 | 35 | 0.97 | ..... | 0.50 | 0.1 | 4 | 17 | 6 | 8 | s. | Morton R. Tank. |
| Cooperstown | Otsego | 1,250 | 56 | 36.3 | + 8.3 | 73 | 29 | 9 | 18 | 39 | 1.23 | − 1.59 | 0.55 | 0.5 | 8 | 17 | 8 | 6 | sw. | G. Pomeroy Keese. |
| Corinth | Saratoga | 542 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.99 | ..... | 0.50 | ..... | 3 | ..... | ..... | ..... | ..... | A. M. Hollister. |
| Cortland | Cortland | 1,129 | 48 | 40.7 | +10.2 | 79 | 30 | 17 | 15 | 40 | 0.60 | − 2.10 | 0.28 | 0.5 | 7 | 18 | 8 | 5 | nw. | F. G. Baker. |
| Cutchogue | Suffolk | 32 | 33 | 41.0 | + 3.4 | 76 | 29 | 14 | 18 | 38 | 2.14 | − 3.10 | 0.88 | 3.0 | 7 | 15 | 14 | 2 | nw. | Wm. A. Fleet. |
| De Ruyter | Madison | 1,300 | 7 | 38.6 | ..... | 80 | 29 | 10 | 18 | 42 | 0.77 | ..... | 0.20 | 1.0 | 6 | 17 | 4 | 10 | s. | B. D. Crandall. |
| Easton | Washington | ..... | 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | − 3.07 | T. | 0.0 | 0 | ..... | ..... | ..... | ..... | H. Taber. |
| Elmira | Chemung | 863 | 31 | 47.4 | + 12.9 | 86 | 29 | 21 | 14† | 57 | 0.16 | − 2.28 | 0.14 | 0.0 | 2 | 10 | 16 | 5 | nw. | Gerity Bros. |
| Fort Hunter | Montgomery | 280 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C. E. Wing. |
| Fort Plain | do | 316 | 6 | 40.0 | ..... | 74 | 27† | 16 | 11† | 35 | 0.58 | ..... | 0.38 | 0.5 | 6 | 18 | 8 | 5 | w. | Abram Devendorf. |
| Glens Falls | Warren | 340 | 19 | 37.4 | + 6.3 | 78 | 29 | 4 | 18 | 44 | 0.93 | − 2.60 | 0.40 | T. | 5 | 16 | 6 | 9 | sw. | Prof. C. L. Williams. |
| Gloversville | Fulton | 850 | 18 | 35.0 | + 5.5 | 70 | 30 | 6 | 18† | 40 | 1.05 | − 3.14 | 0.40 | 2.5 | 7 | 18 | 7 | 6 | w. | W. L. McLean. |
| Greenfield Center | Saratoga | 314 | 12 | 37.2 | + 6.9 | 75 | 29 | 2 | 18 | 36 | 0.85 | − 2.94 | 0.42 | 0.0 | 4 | 20 | 9 | 2 | sw. | S. E. Darrow. |
| Greenwich | Washington | 425 | 13 | 40.0 | + 8.0 | 78 | 29 | 10 | 18 | 39 | 0.68 | − 2.94 | 0.37 | T. | 5 | 17 | 13 | 1 | w. | I. V. H. Gill. |
| Griffin Corners | Delaware | 2,260 | 10 | 38.1 | ..... | 75 | 29 | 7 | 18 | 43 | 0.75 | ..... | 0.41 | 1.0 | 3 | 16 | 13 | 2 | w. | Kelsey H. Kelly. |
| Haskinville | Steuben | ..... | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.39 | − 2.08 | 0.29 | 1.0 | 2 | ..... | ..... | ..... | ..... | W. G. Collins. |
| Homer | Cortland | 1,137 | 2 | 38.6 | ..... | 76 | 29 | 6 | 15 | 44 | 0.61 | ..... | 0.23 | 1.5 | 8 | 19 | 3 | 9 | nw. | Charles C. Mortimer. |
| Hoosick Falls | Rensselaer | 410 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.87 | ..... | 0.40 | T. | 7 | 23 | 4 | 4 | s. | Sanford L. Cluett. |
| Indian Lake | Hamilton | 1,705 | 11 | 32.8 | + 5.9 | 67 | 29 | −13 | 18 | 50 | 2.20 | − 0.83 | 0.90 | 2.9 | 7 | 13 | 9 | 9 | w. | Lester Severie. |
| Jeffersonville | Sullivan | 1,240 | 7 | 39.2 | ..... | 79 | 29 | 11 | 18 | 50 | 0.94 | ..... | 0.43 | T. | 4 | 24 | 5 | 2 | w. | Chas. Wilfert, jr. |
| Lake Pleasant | Hamilton | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Willet Larence. |
| Liberty | Sullivan | 2,300 | 28 | 39.2 | + 8.9 | 75 | 28 | 15 | 10† | 49 | 2.30 | − 0.75 | 1.10 | T. | 5 | 21 | 9 | 1 | nw. | Dr. H. M. King. |
| Little Falls | Herkimer | 924 | 12 | 37.0 | + 7.6 | 72 | 29 | 8 | 18 | 34 | 1.47 | − 1.82 | 0.51 | T. | 7 | 18 | 8 | 5 | w. | O. J. Dempster. |
| Mohonk Lake | Ulster | 1,245 | 14 | 40.6 | + 8.6 | 80 | 29 | 12 | 18 | 34 | 0.98 | − 3.69 | 0.60 | ..... | 2 | 21 | 6 | 4 | w. | A. K. Smiley. |
| Morehouseville | Hamilton | 1,697 | 2 | 32.5 | ..... | 67 | 29 | − 9 | 18 | 42 | 1.08 | ..... | 0.30 | 2.5 | 7 | 23 | 1 | 7 | w. | Theodore C. Remonda. |
| Mount Hope | Westchester | 203 | 13 | 41.1 | + 3.1 | 90 | 29 | 13 | 18 | 57 | 1.22 | − 3.09 | 0.40 | 4.0 | 6 | 10 | 8 | 13 | ..... | Wm. A. Cornelius. |
| Newark Valley | Tioga | 825 | 23 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.32 | − 2.84 | 0.25 | 1.0 | 3 | 23 | 5 | 3 | ..... | M. D. Clinton. |
| New Berlin | Chenango | ..... | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.75 | ..... | 0.35 | ..... | 6 | 12 | 4 | 15 | sw. | Roger Greene. |
| New Lisbon | Otsego | 1,234 | 20 | 35.8 | + 6.7 | 75 | 29 | 6 | 18 | 46 | 0.96 | − 2.16 | 0.46 | 2.0 | 6 | 16 | 5 | 10 | sw. | G. A. Gates. |
| New York | New York | 314 | 85 | 44.7 | + 7.2 | 78 | 30 | 24 | 18 | 29 | 0.86 | − 3.34 | 0.26 | 0.4 | 6 | 13 | 13 | 5 | nw. | U. S. Weather Bureau. |
| North Creek | Warren | 1,002 | 2 | 35.8 | ..... | 72 | 29 | 0 | 18 | 38 | 0.78 | ..... | 0.55 | 0.5 | 7 | 18 | 10 | 3 | nw. | W. G. Kenwell. |
| Northville | Fulton | 742 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.56 | ..... | 0.83 | ..... | 4 | 14 | 6 | 11 | nw. | P. C. Pickard. |
| Norwich | Chenango | 1,015 | 4 | 37.7[a] | ..... | 76[a] | 29 | 13[a] | 18 | 43[a] | 1.77 | ..... | 0.60 | T. | 7 | 17 | 8 | 6 | ..... | H. S. Hopkins. |
| Oneonta | Otsego | 1,112 | 16 | 40.2 | + 6.2 | 77 | 29 | 12 | 18 | 44 | 0.49 | − 2.98 | 0.31 | ..... | 3 | 18 | 7 | 6 | sw. | H. W. Lee. |
| Oxford | Chenango | 916 | 45 | 39.0 | + 7.8 | 74 | 29 | 13 | 18 | 41 | 1.29 | − 1.57 | 0.56 | 1.5 | 5 | 14 | 10 | 7 | w. | John P. Bavis. |
| Port Jervis | Orange | 470 | 26 | 41.8 | + 7.9 | 84 | 29 | 14 | 18 | 51 | 1.20 | − 2.30 | 0.31 | ..... | 10 | 19 | 9 | 3 | w. | Prof. John M. Dolph. |
| Salisbury | Herkimer | 1,526 | 13 | 34.0 | + 3.5 | 69 | 29† | − 2 | 18 | 39 | 2.26 | − 1.69 | 0.65 | 2.0 | 8 | 19 | 8 | 4 | w. | Joseph Ryan. |
| Salisbury Mills | Orange | 314 | 11 | 40.6 | ..... | 83 | 29 | 13 | 18 | 45 | 1.63 | − 2.20 | 0.63 | T. | 7 | 23 | 6 | 2 | w. | H. P. Ramsdell. |
| Scarsdale | Westchester | 200 | 6 | 42.8 | ..... | 84 | 29 | 18 | 10† | 43 | 1.40 | ..... | 0.75 | 2.0 | 5 | 15 | 11 | 5 | nw. | C. H. Wilmarth. |
| Setauket | Suffolk | 40 | 25 | 41.4 | + 4.6 | 76 | 25 | 17 | 18 | 36 | 1.56 | − 2.89 | 0.70 | 2.0 | 6 | 19 | 7 | 5 | w. | Selah B. Strong. |
| Sherburne | Chenango | ..... | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.03 | ..... | 0.39 | 2.0 | 6 | 16 | 5 | 10 | s. | E. B. Collins. |
| Southampton | Suffolk | 36 | 9 | 40.2 | ..... | 77 | 30 | 15 | 18 | 37 | 1.70 | ..... | 0.71 | 3.0 | 7 | 17 | 11 | 3 | nw. | W. L. Jagger. |
| Southeast Reservoir | Putnam | 310 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.52 | − 3.48 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Thomas Manning. |
| Spier Falls | Saratoga | 400 | 9 | 36.8 | ..... | 75 | 28 | 3 | 17 | 46 | 1.06 | ..... | 0.51 | 0.0 | 3 | 24 | 5 | 2 | sw. | W. F. Anderson. |
| Trenton Falls | Oneida | 751 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.93 | ..... | 0.45 | 0.2 | 4 | 12 | 1 | 18 | nw. | C. W. Young. |
| Tribeshill | Montgomery | 268 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.45 | ..... | 0.40 | 0.5 | 6 | 18 | 7 | 6 | w. | R. S. Marshall. |
| Utica | Oneida | 537 | 44 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.98 | ..... | 0.20 | ..... | 8 | ..... | ..... | ..... | ..... | W. E. Young. |
| Wading River | Suffolk | 112 | 4 | 40.4 | ..... | 80 | 29 | 7 | 18 | 48 | 2.33 | ..... | 1.08 | 1.6 | 9 | 19 | 3 | 9 | sw. | H. B. Fullerton. |
| Wappingers Falls | Dutchess | 110 | 20 | 40.4 | + 4.2 | 80 | 29 | 16 | 18 | 40 | 1.41 | − 2.71 | 0.64 | T. | 8 | 19 | 10 | 2 | sw. | H. C. Townsend. |
| Warwick | Orange | 538 | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.26 | − 1.73 | 0.50 | 0.1 | 7 | ..... | ..... | ..... | ..... | John W. Sly. |
| Waverly | Tioga | 824 | 28 | 42.2 | + 9.9 | 83 | 29 | 15 | 18 | 52 | 0.50 | − 2.22 | 0.22 | 0.2 | 5 | 11 | 15 | 5 | sw. | Hon. J. F. Shoemaker. |
| West Berne | Albany | 946 | 11 | 38.8 | + 6.8 | 77 | 24† | 5 | 18 | 41 | T. | − 2.73 | T. | T. | 0 | 15 | 4 | 12 | e. | W. J. Haverly. |
| West Point | Orange | 167 | 61 | 41.7 | + 5.3 | 85 | 29 | 16 | 18 | 45 | 1.50 | − 2.15 | 0.70 | 2.0 | 5 | 17 | 9 | 5 | sw. | Maj. Chas. M. Gandy. |
| Windham | Greene | 1,320 | 10 | 38.4 | + 6.4 | 74 | 29 | 9 | 18 | 44 | 0.84 | − 2.01 | 0.56 | T. | 3 | 16 | 12 | 3 | nw. | A. R. Mott. |
| *Pennsylvania.* | | | | | | | | | | | | | | | | | | | | |
| Altoona | Blair | 1,181 | 22 | 43.5 | + 5.6 | 82 | 29 | 16 | 15 | 46 | 0.46 | − 2.89 | 0.18 | ..... | 5 | ..... | ..... | ..... | ..... | C. W. Billin. |
| Bethlehem | Northampton | 260 | .... | 46.0 | ..... | 86 | 30 | 22 | 4† | 44 | 0.83 | ..... | 0.38 | 0.7 | 5 | 12 | 12 | 7 | sw. | Prof. E. C. Roest. |
| Clearfield | Clearfield | 1,107 | 2 | 42.0 | ..... | 83 | 24 | 11 | 11† | 50 | 0.88 | ..... | 0.46 | 0.7 | 3 | 19 | 9 | 3 | w. | Raymond C. Ogden. |
| Emporium | Cameron | 1,050 | 23 | 42.7 | + 7.2 | 81 | 29 | 17 | 18 | 46 | 0.59 | − 3.34 | 0.25 | 0.7 | 8 | 14 | 11 | 6 | w. | T. B. Lloyd. |
| Ephrata | Lancaster | 384 | 10 | 45.1 | + 5.7 | 80 | 25† | 18 | 18 | 38 | 0.26 | ..... | 0.13 | 0.2 | 6 | 21 | 6 | 4 | w. | W. L. Frants. |
| Everett | Bedford | 1,080 | 12 | 45.0 | + 5.9 | 84 | 29 | 19 | 18 | 45 | 0.59 | − 3.46 | 0.27 | T. | 3 | 16 | 12 | 3 | nw. | B. L. Steckman. |
| George School | Bucks | ..... | 3 | 45.1 | ..... | 85 | 30 | 19 | 16† | 39 | 1.33 | ..... | 1.02 | T. | 5 | 13 | 13 | 5 | nw. | Prof. A. C. Smedley. |
| Gettysburg | Adams | 600 | 36 | 48.4 | + 9.2 | 85 | 30 | 21 | 18 | 39 | 0.48 | − 2.58 | 0.28 | 1.1 | 5 | 14 | 14 | 3 | s. | Col. E. B. Cope. |
| Gordon | Schuylkill | 804 | 6 | 43.4 | ..... | 84 | 30 | 13 | 18 | 46 | 0.59 | ..... | 0.25 | 0.5 | 5 | 18 | 11 | 2 | w. | Capt. J. G. Johnson. |
| Hamburg | Berks | 380 | 14 | 45.2 | + 6.6 | 81 | 24† | 11 | 18 | 43 | 0.36 | − 4.05 | 0.36 | ..... | 1 | 23 | 6 | 2 | nw. | W. J. Kalbach. |
| Harrisburg | Dauphin | 361 | 22 | 47.3 | + 9.5 | 83 | 30 | 24 | 15 | 31 | 0.25 | − 2.87 | 0.08 | T. | 5 | 10 | 13 | 8 | e. | U. S. Weather Bureau. |
| Huntingdon | Huntingdon | 650 | 22 | 45.4 | + 7.1 | 83 | 29 | 18 | 11 | 50 | 0.58 | − 3.36 | 0.25 | T. | 6 | 18 | 7 | 6 | w. | Prof. W. J. Swigart. |
| Hyndman | Bedford | 977 | 3 | 47.4 | ..... | 86 | 29 | 21 | 13† | 48 | 0.28 | ..... | 0.13 | T. | 4 | 11 | 14 | 6 | w. | H. C. Mauk. |
| Lawrenceville | Tioga | 1,006 | 12 | 43.0 | + 8.7 | 85 | 24 | 17 | 10† | 54 | 0.15 | − 2.71 | 0.10 | T. | 2 | 22 | 6 | 3 | ..... | C. P. Darling. |
| Lebanon | Lebanon | 458 | 23 | 47.1 | + 8.7 | 85 | 30 | 22 | 15 | 38 | 0.75 | − 3.25 | 0.28 | 0.4 | 8 | 14 | 12 | 5 | sw. | G. W. Hayes, C. E. |
| Lock Haven | Clinton | 560 | 22 | 45.0 | + 7.2 | 82 | 29 | 19 | 18 | 42 | 0.71 | − 3.10 | 0.26 | 1.0 | 6 | 14 | 14 | 3 | w. | Prof. J. A. Robb. |
| Marion | Franklin | 640 | 6 | 47.9 | ..... | 83 | 30 | 22 | 15† | 41 | 0.20 | ..... | 0.20 | T. | 1 | 23 | 5 | 3 | ..... | Hon. C. B. Hege. |
| Mauch Chunk | Carbon | 634 | 21 | 43.9 | + 7.3 | 88 | 30 | 15 | 18 | 48 | 0.82 | − 3.94 | 0.26 | T. | 6 | 17 | 8 | 6 | w. | F. C. Wintermute. |
| Mifflintown | Juniata | 445 | 6 | 45.2 | ..... | 84 | 30 | 19 | 11 | 45 | 0.22 | ..... | 0.08 | 0.0 | 4 | 11 | 11 | 9 | w. | Wellington Smith. |
| Milford | Pike | 455 | 7 | 40.4 | ..... | 83 | 29 | 10 | 10 | 52 | 0.67 | ..... | 0.31 | 1.0 | 7 | 15 | 14 | 2 | se. | Mrs. Alla Doughty. |
| Montrose | Susquehanna | 1,658 | 6 | 40.0 | ..... | 81 | 29 | 9 | 18 | 43 | 0.91 | ..... | 0.39 | 1.5 | 6 | ..... | ..... | ..... | ..... | J. R. Beebe. |
| Muncy Valley | Sullivan | 519 | ... | 41.9 | ..... | 78 | 30 | 14 | 17 | 37 | 0.14 | ..... | 0.14 | T. | 1 | 25 | 0 | 6 | ..... | F. W. Buck. |
| New Germantown | Perry | 873 | 6 | 46.8 | ..... | 86 | 30 | 18 | 18 | 42 | 0.24 | ..... | 0.20 | T. | 2 | 19 | 8 | 4 | w. | Ed. C. Johnston. |
| Philadelphia (1) | Philadelphia | 117 | 39 | 48.0 | + 8.0 | 83 | 30 | 27 | 18 | 31 | 0.38 | − 3.07 | 0.28 | 0.3 | 7 | 15 | 8 | 8 | sw. | U. S. Weather Bureau. |
| Pocono Lake | Monroe | 1,662 | 8 | 39.8[b] | ..... | 81[b] | 30 | 5[b] | 18 | 42[b] | 1.21 | ..... | 0.41 | 3.0 | 6 | 15[b] | 8[b] | 6[b] | w. | Pocono Lake Ice Co. |
| Reading | Berks | 280 | 37 | 47.6 | + 8.4 | 86 | 30 | 22 | 18 | 41 | 0.89 | − 2.62 | 0.23 | ..... | 7 | ..... | ..... | ..... | ..... | Franklin Yeager. |
| Scranton | Lackawanna | 805 | 10 | 44.2 | + 9.3 | 83 | 30 | 18 | 18 | 36 | 0.77 | − 2.35 | 0.43 | 2.2 | 8 | 13 | 10 | 8 | sw. | U. S. Weather Bureau. |
| Selinsgrove | Snyder | 455 | 22 | 45.2 | + 6.7 | 79 | 25† | 20 | 18 | 43 | 0.35 | − 3.71 | 0.18 | T. | 4 | 1 | 25 | 5 | sw. | J. M. Boyer, C. E. |
| State College | Center | 1,191 | 22 | 44.7 | + 9.3 | 80 | 29 | 19 | 15 | 43 | 0.60 | − 3.04 | 0.27 | 0.6 | 7 | ..... | ..... | ..... | sw. | Prof. Wm. Frear. |
| Towanda | Bradford | 754 | 15 | 42.9 | + 8.2 | 81 | 29 | 15 | 18 | 47 | 0.71 | − 2.30 | 0.28 | 1.5 | 7 | 14 | 8 | 9 | nw. | Hiram E. Bull, C. E. |
| Wellsboro | Tioga | 1,327 | 33 | 42.2 | + 9.9 | 81 | 24† | 9 | 18 | 49 | 0.61 | − 2.80 | 0.21 | 2.0 | 4 | 20 | 10 | 1 | w. | O. L. White. |
| West Chester | Chester | 455 | 56 | 46.4 | + 8.2 | 85 | 30 | 21 | 18 | 33 | 0.52 | − 3.92 | 0.30 | 0.4 | 8 | 14 | 10 | 7 | w. | J. C. Green, D. D. S. |
| Wilkes-Barre | Luzerne | 575 | 25 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | A. W. Betterly |
| Williamsport | Lycoming | 530 | 20 | 45.3 | + 9.1 | 78 | 30† | 20 | 18 | 39 | 0.42 | − 3.16 | 0.18 | 0.5 | 6 | 21 | 2 | 8 | w. | Henry H. Guise. |
| *New Jersey.* | | | | | | | | | | | | | | | | | | | | |
| Asbury Park | Monmouth | 22 | 22 | 43.2 | + 4.9 | 81 | 25 | 22 | 18 | 41 | 0.90 | − 3.40 | 0.65 | 1.0 | 5 | 15 | 8 | 8 | se. | B. H. Obert. |
| Atlantic City | Atlantic | 16 | 37 | 43.4 | + 4.6 | 72 | 29 | 26 | 16 | 25 | 1.27 | − 2.46 | 0.98 | 2.7 | 4 | 11 | 10 | 10 | sw. | U. S. Weather Bureau. |

TABLE 1—*Climatological data for March, 1910. District No. 1*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | |
| *New Jersey*—Cont'd. | | | | | | | | | | | | | | | | | | | |
| Bayonne | Hudson | 50 | 20 | 43.8 | + 5.8 | 83 | 29 | 22 | 18 | 39 | 1.64 | − 2.50 | 1.09 | 1.2 | 6 | 14 | 9 | 8 | se. | J. H. Eadie. |
| Belvidere | Warren | 289 | 19 | 43.8 | + 7.0 | 85 | 30 | 17 | 18 | 46 | 1.55 | − 2.72 | 0.41 | 1.0 | 7 | 13 | 12 | 6 | ..... | S. J. Hixson. |
| Bergen Point | Hudson | 37 | 13 | 44.4 | + 6.6 | 88 | 29 | 22 | 18 | 43 | 1.76 | − 2.46 | 1.07 | 2.0 | 7 | 13 | 13 | 5 | se. | Dr. W. H. Mitchell. |
| Boonton | Morris | 413 | 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.90 | − 1.84 | 0.75 | 1.2 | 6 | ..... | ..... | ..... | ..... | F. G. McIntosh. |
| Bridgeton | Cumberland | 30 | 29 | 47.4 | + 6.3 | 83 | 30 | 22 | 11† | 47 | 0.84 | − 3.54 | 0.22 | 0.5 | 6 | 17 | 9 | 5 | nw. | H. A. Jorden. |
| Burlington | Burlington | 12 | 26 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.29 | − 3.79 | 0.11 | 0.1 | 4 | ..... | ..... | ..... | nw. | D. S. B. McCoy. |
| Canton | Salem | 24 | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.31 | − 2.51 | 0.66 | 1.0 | 6 | 15 | 11 | 5 | ..... | J. H. Maskell. |
| Cape May | Cape May | 17 | 26 | 43.8 | + 3.0 | 68 | 29 | 26 | 11 | 21 | 2.36 | − 1.37 | 1.27 | 5.0 | 7 | 12 | 12 | 7 | s. | U. S. Weather Bureau. |
| Charlotteburg | Passaic | 719 | 18 | 42.6 | + 6.5 | 81 | 29† | 10 | 18 | 42 | 0.83 | − 3.52 | 0.26 | 0.8 | 5 | 14 | 12 | 5 | sw. | G. S. Briggs. |
| Chatham | Morris | 234 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.02 | ..... | 0.95 | 2.0 | 6 | ..... | ..... | ..... | ..... | M. A. Butler. |
| Clayton | Gloucester | 126 | 17 | 46.7 | + 6.9 | 85 | 30 | 21 | 11† | 39 | 1.36 | − 1.96 | ..... | 0.5 | 5 | 13 | 13 | 5 | nw. | W. T. Farley. |
| College Farm | Middlesex | 100 | 15 | 44.6 | + 7.1 | 84 | 30 | 19 | 18 | 38 | 1.73 | − 1.69 | 1.34 | 0.9 | 7 | 15 | 10 | 6 | nw. | G. B. Thrasher. |
| Culvers Lake | Sussex | 848 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.49 | ..... | 0.38 | 0.9 | 8 | 14 | 10 | 7 | se. | B. E. Riker. |
| Dover | Morris | 575 | 26 | 41.8 | + 6.9 | 83 | 30 | ..... | ..... | 43 | 1.03 | − 2.87 | 0.30 | 1.0 | 5 | 14 | 11 | 6 | ..... | W. C. Harris. |
| Elizabeth | Union | 33 | 31 | 45.4 | + 7.0 | 81 | 29 | 23 | 18 | 39 | 2.04 | − 2.22 | ..... | 1.6 | 6 | ..... | ..... | ..... | e. | W. M. Oliver. |
| Flemington | Hunterdon | 187 | 22 | 44.7 | + 7.2 | 85 | 30 | 19 | 18 | 42 | 1.35 | − 2.13 | 0.77 | 0.6 | 6 | 15 | 7 | 9 | nw. | H. E. Deats. |
| Friesburg | Salem | 100 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | H. C. Perry. |
| Haddonfield | Camden | 75 | 16 | 46.4 | + 7.2 | 86 | 30 | 20 | 18 | 38 | 0.95 | − 2.94 | 0.74 | 0.2 | 6 | 15 | 9 | 7 | sw. | C. F. Richardson. |
| Hammonton | Atlantic | 80 | 12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.44 | − 1.98 | 0.95 | T. | 5 | ..... | ..... | ..... | ..... | Orville Bassett. |
| Hightstown | Mercer | 85 | 18 | 45.2 | + 6.2 | 84 | 30 | 19 | 18 | 41 | 0.62 | − 3.88 | 0.34 | 0.6 | 6 | 12 | 12 | 7 | sw. | Ernst Wenger. |
| Imlaystown | Monmouth | 106 | 24 | 45.2 | + 5.5 | 85 | 30 | 18 | 18 | 40 | 0.42 | − 3.82 | 0.14 | 0.6 | 7 | 15 | 10 | 6 | sw. | Dr. F. C. Price. |
| Indian Mills | Burlington | 76 | 21 | 46.6 | + 6.8 | 87 | 30 | 15 | 18 | 45 | 1.32 | − 2.78 | 0.70 | 0.5 | 8 | 17 | 9 | 5 | sw. | James Armstrong. |
| Jersey City | Hudson | 15 | 12 | 45.0 | + 6.9 | 82 | 29 | 23 | 18 | 39 | 0.96 | − 3.18 | 0.33 | 1.8 | 6 | 13 | 12 | 6 | ne. | S. K. Pearson, jr. |
| Lakewood | Ocean | 54 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | H. R. Major. |
| Lambertville | Hunterdon | 95 | 24 | 45.4 | + 6.4 | 86 | 30 | 19 | 18 | 44 | 1.56 | − 2.60 | 1.12 | 0.5 | 6 | 14 | 9 | 8 | sw. | W. R. Bowne. |
| Layton | Sussex | 550 | 11 | 40.4 | + 6.2 | 83 | 29 | 10 | 18 | 51 | 1.01 | − 2.66 | 0.37 | T. | 5 | 14 | 11 | 6 | sw. | W. C. Hursh. |
| Little Falls | Passaic | 175 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.97 | ..... | 0.28 | 0.5 | 6 | ..... | ..... | ..... | ..... | A. Sweetman. |
| Long Branch | Monmouth | 30 | 3 | 44.4 | ..... | 82 | 25 | 22 | 18 | 42 | 1.01 | ..... | 0.42 | 1.0 | 4 | 15 | 8 | 8 | se. | B. B. Bobbit. |
| Mahwah | Bergen | 312 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C. L. Barker. |
| Moorestown | Burlington | 71 | 48 | 46.3 | + 7.5 | 85 | 30 | 21 | 18 | 37 | 0.46 | − 3.35 | 0.29 | 0.1 | 5 | 19 | 6 | 6 | s. | J. C. Beans. |
| Newark | Essex | 140 | 67 | 46.4 | + 8.9 | 84 | 29 | 22 | 18 | 36 | 0.72 | − 3.21 | 0.27 | 1.2 | 6 | 12 | 13 | 6 | nw. | Prof. Wm. Wiener. |
| New Brunswick | Middlesex | 61 | 57 | 44.7[b] | + 6.5 | 85 | 30 | 12 | 18 | 40 | 0.48 | − 3.43 | 0.12 | 1.0 | 6 | ..... | ..... | ..... | ..... | W. T. Woerner. |
| Newton | Sussex | 678 | 31 | 42.6 | + 6.8 | 84 | 29 | 15 | 18 | 40 | 1.17 | − 2.43 | 0.44 | 2.0 | 5 | 13 | 10 | 8 | sw. | B. H. Kienbaum. |
| Northfield | Atlantic | ..... | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.33 | ..... | 0.62 | 2.4 | 5 | ..... | ..... | ..... | ..... | W. L. Flick. |
| Oceanic | Monmouth | 16 | 24 | 44.8[a] | + 5.1 | 83 | 29† | 20 | 18 | 41 | 1.87 | − 2.55 | 1.20 | 1.1 | 7 | 13 | 11 | 7 | nw. | Prof. C. E. Dietz. |
| Paterson | Passaic | 110 | 39 | 44.4 | + 5.9 | 86 | 29 | 19 | 18 | 43 | 1.34 | − 3.20 | 0.62 | 1.7 | 6 | 10 | 17 | 4 | nw. | H. A. Probert. |
| Phillipsburg | Warren | 196 | 13 | 44.0 | + 6.8 | 85 | 30 | 20 | 18 | 39 | 0.93 | − 3.27 | 0.30 | 1.3 | 6 | 13 | 10 | 8 | sw. | D. W. Smith |
| Plainfield | Union | 100 | 24 | 44.2 | + 7.6 | 84 | 30 | 18 | 18 | 43 | 0.88 | − 2.93 | 0.24 | 1.0 | 6 | 11 | 16 | 4 | ne. | John Neagle. |
| Pleasantville | Atlantic | 26 | 12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.31 | − 1.93 | 0.68 | 2.3 | 6 | ..... | ..... | ..... | ..... | L. Van Gilder. |
| Pompton Plains | Morris | 195 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.38 | ..... | 0.71 | ..... | 6 | ..... | ..... | ..... | ..... | M. S. Taylor. |
| Rancocas | Burlington | 68 | 47 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.60 | − 3.41 | 0.47 | T. | 4 | 16 | 7 | 8 | nw. | Spencer Haines. |
| Rivervale | Bergen | 70 | 19 | 41.0[b] | + 5.1 | 81 | 25† | 12 | 18 | 50 | 2.13 | − 2.47 | 1.10 | 2.0 | 4 | ..... | ..... | ..... | nw. | G. S. M. Holdrum. |
| Runyon | Middlesex | 18 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. H. Cottrell |
| Somerville | Somerset | 76 | 27 | 44.8 | + 7.9 | 85 | 30 | 18 | 18 | 44 | 1.70 | − 2.25 | 0.80 | 1.0 | 6 | 11 | 11 | 9 | nw. | P. Hardcastle. |
| South Orange | Essex | 200 | 40 | 43.2 | + 6.4 | 80 | 29† | 19 | 18 | 31 | 1.50 | − 2.31 | 0.62 | 1.0 | 6 | 16 | 7 | 8 | nw. | Dr. W. J. Chandler. |
| Sussex | Sussex | 442 | 20 | 43.0 | + 6.6 | 83 | 29 | 16 | 18 | 43 | 0.88 | − 2.79 | 0.40 | T. | 4 | 13 | 12 | 6 | sw. | Prof. W. H. Seeley. |
| Trenton | Mercer | 60 | 38 | ..... | ..... | 86 | 30 | 25 | 18 | 43 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | E. R. Cook. |
| Tuckerton | Ocean | 23 | 17 | 45.0 | + 6.0 | 84 | 30 | 17 | 18 | 36 | 1.32 | − 3.07 | 0.66 | 0.8 | 6 | 12 | 10 | 9 | ne. | F. R. Austin. |
| Vineland | Cumberland | 118 | 41 | 47.2 | + 6.9 | 87 | 30 | 21 | 11† | 41 | 1.38 | − 2.81 | 0.80 | 0.5 | 6 | 15 | 11 | 5 | se. | Alfred Chalmers. |
| Woodbine | Cape May | 43 | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Prof. R. D. Maltby. |
| *West Virginia.* | | | | | | | | | | | | | | | | | | | |
| Bayard | Grant | 2,500 | 8 | 44.3 | ..... | 80 | 29 | 16 | 15 | 48 | 0.71 | ..... | 0.13 | 4.0 | 8 | 13 | 10 | 8 | w. | Solomon Clark. |
| Burlington | Mineral | 875 | 15 | 48.7[a] | + 7.2 | 88[a] | 29 | 22[a] | 18 | 46[a] | 0.40[a] | − 3.00 | 0.30[a] | 3.0[a] | 2[a] | 16[a] | 12[a] | 2[a] | w. | J. W. Vandiver. |
| Franklin | Pendleton | ..... | 3 | 47.8[a] | ..... | 82[a] | 28 | 17[a] | 15 | 41[a] | 0.20[a] | ..... | 0.20[a] | 2.0[a] | 1[a] | 21[a] | 4[a] | 5[a] | ..... | A. A. Martin. |
| Lost City | Hardy | ..... | 4 | 47.2 | ..... | 80 | 28 | 21 | 15 | 44 | 0.49 | ..... | 0.34 | T. | 3 | 16 | 10 | 5 | w. | B. D. Hinegardner. |
| Martinsburg | Berkeley | 435 | 19 | 49.0 | + 8.1 | 84 | 30 | 25 | 15† | 43 | 0.17 | − 3.02 | 0.10 | 1.0 | 2 | 22 | 6 | 3 | se. | G. W. Van Metre, C. E. |
| Moorefield | Hardy | 900 | 14 | 49.9 | + 6.0 | 88 | 28 | 19 | 18 | 52 | 0.63 | − 1.95 | 0.50 | 5.0 | 2 | 16 | 11 | 4 | s. | John C. Fisher. |
| Romney | Hampshire | 824 | 14 | 49.2 | + 5.6 | 87 | 28† | 22 | 15† | 46 | 0.65 | − 2.54 | 0.30 | T. | 5 | 20 | 7 | 4 | w. | John C. Linthicum. |
| Upper Tract | Pendleton | 1 230 | 12 | 50.2[a] | + 5.8 | 84[a] | 24† | 22[a] | 18 | 46[a] | 0.27[a] | − 2.54 | 0.17[a] | 1.0[a] | 3[a] | 9[a] | 17[a] | 4[a] | w. | J. M. Mallow. |
| *Maryland.* | | | | | | | | | | | | | | | | | | | |
| Annapolis | Anne Arundel | 45 | 32 | 48.4 | + 5.9 | 80 | 24 | 27 | 16 | 36 | 2.28 | − 2.06 | 1.45 | T. | 5 | 14 | 9 | 8 | se. | W. M. Abbott. |
| Bachmans Valley | Carroll | 860 | 17 | 48.3 | + 8.6 | 83 | 30 | 20 | 11 | 37 | 0.80 | − 4.23 | 0.42 | 2.0 | 5 | 26 | 3 | 2 | s. | |
| Baltimore | Baltimore | 115 | 40 | 49.8 | + 7.9 | 83 | 25 | 28 | 15 | 31 | 0.46 | − 3.42 | 0.21 | 2.1 | 5 | 12 | 11 | 8 | ne. | U. S. Weather Bureau. |
| Cambridge | Dorchester | 25 | 12 | 51.4 | + 5.0 | 85 | 29 | 27 | 11 | 38 | 3.86 | − 0.44 | 1.98 | 5.0 | 5 | 22 | 4 | 5 | s. | T. E. Keenan. |
| Cheltenham | Prince George | 230 | 10 | 51.6 | ..... | 84 | 30 | 24 | 16 | 36 | 1.71 | ..... | 1.04 | 3.0 | 6 | 20 | 6 | 5 | nw. | J. E. Burbank. |
| Chester | Queen Anne | 15 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Chestertown | Kent | 80 | 25 | 48.6 | + 5.9 | 78 | 30 | 27 | 16 | 31 | 1.90 | − 1.69 | 1.25 | 3.5 | 7 | 21 | 5 | 5 | sw. | Hon. M. de K. Smith. |
| Chewsville | Washington | 530 | 13 | 48.8 | + 7.5 | 83 | 30 | 23 | 15 | 37 | 0.08 | − 2.84 | 0.07 | 0.5 | 2 | 15 | 13 | 3 | nw. | D. Paul Oswald. |
| Clear Spring | ...do | 650 | 13 | 48.1 | + 7.7 | 85 | 30 | 23 | 15 | 40 | 0.71 | − 3.55 | 0.50 | 1.0 | 5 | 14 | 14 | 3 | w. | W. W. Frantz. |
| Coleman | Kent | 80 | 12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| College Park | Prince George | 170 | 20 | 50.3 | + 6.9 | 87 | 30 | 20 | 16 | 41 | 1.17 | − 2.12 | 0.90 | 0.0 | 3 | 17 | 4 | 10 | s. | Prof. H. J. Patterson. |
| Cumberland | Allegany | 700 | 36 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.37 | − 2.74 | 0.25 | T. | 4 | ..... | ..... | ..... | e. | J. W. Frantz. |
| Darlington | Harford | 300 | 18 | 47.2 | + 6.0 | 85 | 30 | 23 | 15† | 33 | 0.21 | − 3.35 | 0.18 | 2.0 | 2 | 15 | 11 | 5 | ne. | Prof. A. F. Galbreath. |
| Denton | Caroline | 42 | 15 | 48.9 | + 5.4 | 82 | 29† | 20 | 11 | 38 | 1.27 | − 2.23 | 0.52 | 4.0 | 5 | 27 | 0 | 4 | s. | H. B. Mason. |
| Easton | Talbot | 35 | 19 | 49.0 | + 5.1 | 80 | 29 | 21 | 12 | 35 | 1.99 | − 1.46 | 1.05 | 5.6 | 4 | 25 | 1 | 5 | sw. | Henry Shreve. |
| Emmitsburg | Frederick | 720 | 37 | 50.3 | + 10.7 | 83 | 30 | 23 | 15 | 34 | 0.70 | − 3.42 | 0.41 | T. | 4 | 16 | 13 | 2 | nw. | Jno. H. Eckenrode. |
| Fallston | Harford | 450 | 40 | 47.4 | + 8.3 | 85 | 30 | 24 | 11† | 30 | 0.84 | − 3.40 | 0.43 | 2.5 | 8 | 3 | 25 | 3 | se. | J. H. Curtiss. |
| Frederick | Frederick | 275 | 33 | 49.8 | + 8.2 | 86 | 30 | 26 | 15† | 39 | 0.49 | − 2.69 | 0.17 | 2.7 | 6 | 22 | 6 | 3 | sw. | Henry Trail. |
| Frostburg | Allegany | 1,929 | 9 | 48.2 | ..... | 82 | 24† | 18 | 15 | 37 | 0.38 | ..... | 0.12 | 0.3 | 8 | 20 | 7 | 4 | ..... | L. B. Abbott. |
| Great Falls | Montgomery | 250 | 19 | 49.2 | + 6.4 | 85 | 30 | 20 | 16 | 48 | 0.42 | − 2.90 | 0.30 | 2.5 | 4 | 16 | 10 | 5 | sw. | J. W. Bissett. |
| Green Spring Furnace | Washington | 450 | 18 | 49.7 | + 8.8 | 85 | 30 | 22 | 18 | 39 | 0.45 | − 2.74 | 0.22 | 0.5 | 6 | 24 | 5 | 2 | w. | E. G. Kinsell. |
| Keedysville | ...do | 430 | 6 | 50.8 | ..... | 85 | 30 | 21 | 16 | 41 | 0.37 | ..... | 0.16 | 1.0 | 5 | 22 | 6 | 3 | s. | J. A. Miller. |
| Lake Montebello | Baltimore | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.41 | ..... | 0.19 | T. | 5 | 21 | 4 | 6 | s. | Martin L. Dobler. |
| La Plata | Charles | 190 | 1 | 50.0[c] | ..... | 89[c] | 30 | 21[c] | 16 | 47[c] | 1.50 | ..... | 0.90 | 3.2 | 7 | 20[c] | 0[c] | 8[c] | ..... | Prof. R. H. Lee Reich. |
| Laurel | Prince George | 150 | 16 | 48.7 | + 5.6 | 87 | 30 | 20 | 4 | 44 | 0.56 | − 3.23 | 0.25 | 2.0 | 4 | 9 | 17 | 5 | ..... | Dr. T. M. Baldwin. |
| Monrovia | Frederick | 630 | 23 | 50.1 | + 8.9 | 84 | 30 | 23 | 15 | 39 | 0.67 | − 3.07 | 0.25 | 2.7 | 7 | 19 | 8 | 4 | s. | J. H. Lawson. |
| Pocomoke City | Worcester | 37 | 17 | 51.6 | + 4.5 | 83 | 30 | 29 | 16 | 31 | 3.39 | − 0.17 | 1.75 | 0.8 | 6 | 23 | 5 | 3 | s. | R. M. Stevenson. |
| Porto Bello | St. Mary | 38 | 5 | 46.2 | ..... | 70 | 30 | 27 | 16 | 25 | ..... | ..... | ..... | ..... | ..... | 24 | 3 | 4 | se. | Alpheus Hyatt. |
| Princess Anne | Somerset | 17 | 17 | 49.5 | + 4.5 | 83 | 30 | 25 | 16 | 36 | 3.22 | − 0.39 | 1.44 | 6.0 | 6 | 11 | 16 | 4 | sw. | Jas. R. Stewart. |
| Rockville | Montgomery | 421 | 3 | 51.8 | ..... | 85 | 30 | 24 | 15 | 35 | 0.41 | ..... | 0.18 | 3.0 | 7 | 22 | 6 | 3 | ..... | Dr. Geo. E. Lewis. |
| Salisbury | Wicomico | 23 | 5 | 50.2 | ..... | 85 | 29† | 22 | 16 | 42 | 3.35 | ..... | 1.48 | 4.0 | 7 | 20 | 8 | 3 | sw. | W. E. Downing. |
| Sanatorium | Frederick | ..... | 2 | 48.6 | ..... | 80 | 29 | 19 | 15 | 34 | 0.46 | ..... | 0.34 | 0.5 | 2 | 17 | 8 | 6 | se. | Dr. W. M. Garrison |
| Solomons | Calvert | 20 | 19 | 49.0 | + 4.9 | 78 | 30 | 29 | 11† | 30 | 2.12 | − 1.12 | 1.27 | 5.0 | 5 | 7 | 13 | 11 | se. | Dr. W. H. Marsh. |
| Sudlersville | Queen Anne | 65 | 11 | 49.0 | + 4.7 | 83 | 30 | 30 | 11 | 38 | 1.80 | − 2.08 | 1.12 | 1.8 | 9 | 15 | 9 | 7 | s. | Jas. E. Higman. |
| Takoma Park | Montgomery | 320 | 12 | 49.1 | + 6.1 | 86 | 30 | 24 | 15 | 45 | 1.34 | − 2.46 | 0.85 | 2.5 | 5 | 3 | 20 | 8 | ..... | L. M. Moores. |
| Taneytown | Carroll | 450 | 11 | 48.0 | ..... | 84 | 30 | 21 | 16 | 40 | 0.47 | − 2.99 | 0.15 | 1.0 | 4 | 25 | 3 | 3 | se. | R. A. Nusbaum. |
| Towson | Baltimore | 465 | 2 | 49.0 | ..... | 86 | 30 | 24 | 15 | 36 | 0.81 | ..... | 0.54 | 2.5 | 5 | 15 | 11 | 5 | se. | C. W. E. Treadwell. |

TABLE 1—*Climatological data for March, 1910. District No. 1*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Maryland*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Van Bibber | Harford | 100 | 13 | 44.8° | + 3.4 | 82[b] | 30 | 20° | 16° | 36° | | | | | | | | | | J. Benj. Ford. |
| Westernport | Allegany | 1,000 | 16 | 48.2 | + 7.9 | 87 | 24 | 20 | 10 | 49 | 0.23 | − 2.94 | 0.08 | 0.7 | 4 | | | | | Prof. O. H. Bruce. |
| Woodstock | Baltimore | 392 | 36 | 51.9 | +11.5 | 83 | 30 | 25 | 15 | 39 | 0.46 | − 3.39 | 0.24 | 1.0 | 5 | 25 | 3 | 3 | se. | Rev. A. J. Donlon, S. J. |
| *Delaware.* | | | | | | | | | | | | | | | | | | | | |
| Delaware City | Newcastle | | 8 | 47.4 | | 81 | 25† | 27 | 15† | 37 | 1.47 | | 1.31 | 0.9 | 4 | 23 | 4 | 4 | s. | H. Morton Price. |
| Dover | Kent | | 22 | 49.6 | + 7.3 | 86 | 30 | 23 | 11 | 40 | 1.44 | − 2.90 | 1.22 | 2.0 | 4 | 21 | 5 | 5 | e. | Thos. F. Dunn. |
| Milford | ....do | | 26 | 51.2 | + 7.1 | 85 | 30 | 23 | 11 | 39 | 3.22 | − 0.65 | 1.63 | 4.0 | 9 | 17 | 8 | 6 | sw. | C. J. Holzmueller. |
| Millsboro | Sussex | | 18 | 48.8 | + 4.8 | 83 | 30 | 23 | 16 | 43 | 2.76 | − 1.08 | 0.80 | 4.0 | 6 | 23 | 3 | 5 | se. | Rev. L. W. Wells. |
| Seaford | ....do | | 17 | 49.4 | + 5.4 | 83 | 30 | 22 | 11 | 35 | 4.02 | + 0.34 | 1.90 | 4.0 | 7 | 23 | 3 | 5 | s. | E. B. Brown. |
| *District of Columbia.* | | | | | | | | | | | | | | | | | | | | |
| Washington | District of Columbia | 112 | 40 | 51.2 | + 9.0 | 86 | 30 | 26 | 15 | 34 | 0.57 | − 3.28 | 0.38 | 3.2 | 5 | 17 | 9 | 5 | nw. | U. S. Weather Bureau. |
| *Virginia.* | | | | | | | | | | | | | | | | | | | | |
| Culpeper | Culpeper | 450 | 2 | 51.7 | | 88 | 30 | 20 | 16 | 39 | 0.60 | | 0.36 | 5.5 | 3 | 12 | 15 | 4 | s. | Col. H. C. Burrows. |
| Dale Enterprise | Rockingham | 1,350 | 31 | 49.6 | + 7.2 | 86 | 28 | 16 | 15† | 46 | 1.08 | − 2.18 | 0.60 | 6.0 | 7 | 13 | 14 | 4 | sw. | Rev. L. J. Heatwole. |
| Doswell | Hanover | 134 | 9 | | | | | | | | | | | | | | | | | Rich., Fdksbg. & Pot. R. R. |
| Eastville | Northampton | 15 | ... | 53.2 | | 89 | 30 | 28 | 16 | 36 | 3.13 | | 1.30 | 6.5 | 5 | 19 | 6 | 6 | se. | Thos. B. Robertson. |
| Fredericksburg | Spottsylvania | 100 | 21 | 53.2 | + 6.7 | 92 | 30 | 20 | 16 | 45 | 0.82 | − 2.59 | | 3.5 | 4 | 17 | 9 | 5 | sw. | S. G. Howison. |
| Lincoln | Loudoun | 500 | 9 | 50.8 | | 91 | 30 | 20 | 16 | 43 | 0.50 | | 0.30 | 2.0 | 2 | 8 | 18 | 5 | nw. | Dr. Geo. Roberts. |
| Mount Weather | ...do | 1,726 | 6 | 48.0 | + 7.8 | 81 | 30 | 19 | 15 | 36 | 0.43 | − 1.60 | 0.22 | 2.2 | 5 | 19 | 9 | 3 | nw. | U. S. Weather Bureau. |
| Nokesville (near) | Fauquier | 350 | 6 | | | | | | | | | | | | | | | | | Andrew Low. |
| Quantico | Prince William | 16 | 13 | 50.6 | | 88 | 30 | 16 | 15 | 40 | 1.50 | | 0.40 | 4.2 | 5 | | | | nw. | Rich., Fdksbg. & Pot. R. R |
| Shenandoah | Page | 937 | 9 | | | | | | | | 0.49 | | 0.26 | 2.5 | 5 | 26 | 3 | 2 | sw. | Norfolk & Western Ry. |
| Staunton | Augusta | 1 380 | 18 | 52.0 | + 7.4 | 86 | 30 | 22 | 15 | 37 | 0.75 | − 2.61 | 0.40 | 4.0 | 6 | 18 | 9 | 4 | sw. | Ernest Nothnagel. |
| Stephens City | Frederick | 710 | 18 | 51.5 | + 7.9 | 88 | 30 | 22 | 16 | 47 | | | | | | 10 | 12 | 9 | se. | B. T. Argenbright. |
| Warsaw | Richmond | 160 | 18 | | | | | 22 | 16 | ... | 3.42 | − 0.06 | 2.70 | 2.0 | 5 | | | | n. | C. H. Constable. |
| Woodstock | Shenandoah | 927 | 14 | 51.6 | + 4.7 | 90 | 30 | 23 | 15 | 46 | 0.29 | − 2.87 | 0.15 | 2.0 | 5 | 17 | 10 | 4 | w. | Miss A. G. Miley. |

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
Estimated by observer.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1910. District No. 1, North Atlantic States.*

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Maine.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bar Harbor | Coast | .20 | .30 | | | | | 2.30 | | | | | T. | | .10 | | | | | | .10 | T. | .10 | | | T. | | | T. | | | T. | 3.10 |
| Cornish | Saco | .57 | T. | | | | | .66 | T. | T. | | | | | .35 | | | | | | .02 | | | | | | T. | | | | T. | .16 | 1.76 |
| Danforth | Penobscot | | | | | .10 | | .25 | | | | | | | | | | | | | | T. | | | | | | | T. | | | T. | 0.35 |
| Debsconeag | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eastport | Coast | .09 | .17 | T. | | | | .97 | .04 | | | | .08 | .07 | .28 | | | | | T. | .16 | | .01 | | | T. | | | .09 | | | .02 | 1.98 |
| Fairfield | Kennebec | | * | .48 | | | | .92 | | | | | | | .31 | | | | | | | | | | | | | | | | | 1.71 |
| Farmington | do | .36 | | | | | | .60 | T. | | | | | | .40 | | | | | | | | .02 | | | | | | .01 | | | .02 | 1.41 |
| Gardiner | do | .28 | .29 | | | | | 1.24 | | | | | | | .16 | | | | | | T. | | T. | | | | | | T. | | | .01 | 1.98 |
| Greenville | do | .25 | T. | | | | | .88 | .05 | T. | | | | T. | .26 | T. | T. | | | T. | T. | | | | | | T. | | T. | | | .74 | 2.18 |
| Houlton | St. John | | | | | | .40 | | | | | | | | | .20 | | | | | .30 | | | | | | | | T. | | | .50 | 1.40 |
| Lewiston | Androscoggin | .48 | .03 | | | | | .91 | | | | | | .23 | | | | | | | .04 | | | | | | | | T. | | | .21 | 1.90 |
| Madison | Kennebec | .11 | | | | | | .93 | | | | | | | .38 | | | | | | | | | | | | | | | | | .49 | 1.91 |
| Millinocket | Penobscot | * | .21 | | | | | * | 1.20 | | | | | T. | * | .25 | | | | | | | | | | | T. | | | T. | | T. | 1.66 |
| North Bridgeton | Saco | .25 | | | | | | .76 | | | | | | .43 | | | | | | | | | | | | | | | T. | | | .21 | 1.65 |
| Orono | Penobscot | .05 | .29 | | | | | 1.03 | | | | | | | .12 | | | | | | T. | | .08 | | | | | | .05 | | | .29 | 1.91 |
| Oquossoc | Androscoggin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Patten | Penobscot | .02 | .05 | | | | | .50 | .17 | | | | | | .03 | | | | | | | | T. | | | | .11 | | | | | .05 | 0.93 |
| Portland | Coast | .72 | .01 | | | | .02 | .57 | | | | | | T. | .07 | | | | | | T. | | | | | | .01 | | | | | .22 | 1.62 |
| Presque Isle | St. John | T. | .37 | | | | | .25 | | | | | | | .05 | | | | | | .08 | T. | T. | T. | | | T. | | T. | | | .17 | 0.92 |
| Rumford Falls | Androscoggin | .29 | | | | | | .75 | | | | | | T. | .39 | | | | | | | | | | | | | | | | | .35 | 1.78 |
| The Forks | Kennebec | * | .40 | | | | | .71 | | | | | | | .60 | | | | | | | | | | | | | | | | | .52 | 2.23 |
| Winslow | do | | .56 | | | | | 1.10 | | | | | | | .20 | | | | | | | | | | | | | | | | | | 1.86 |
| *New Hampshire.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alstead Center | Connecticut | .36 | T. | | | | | .53 | T. | | | | | | .02 | | | | | | .09 | | | | | | | | | | | .01 | 1.01 |
| Benton | do | .40 | | | | T. | | .40 | .03 | | | | | | .43 | | | | | | .05 | | T. | | | | T. | | | | | .11 | 1.42 |
| Bethlehem | do | .21 | .02 | | | | | .58 | | .10 | | | | | .50 | | | | | | .14 | | T. | | | | .05 | | | | | .06 | 1.66 |
| Brookline | Merrimac | .95 | | | | | | .40 | | | | | | | | | | | | | .08 | | | | | | | | | | | | 1.43 |
| Concord | do | .40 | .02 | | | | T. | .59 | T. | | | | | | .22 | T. | | | | | .01 | | | | | | | | T. | | | .04 | 1.28 |
| Durham | do | .02 | | | | | | .02 | | | | | | .05 | | | | | | | | | | | | | | | | | | .05 | 0.14 |
| Franklin | do | .55 | .03 | | | | | .57 | | | | | | | .19 | | | | | | .03 | | | | | | | | | | | .01 | 1.38 |
| Grafton | do | .30 | .10 | | | | | .40 | | | | | | | .10 | | | | | | .12 | | | | | | T. | | | | | T. | 1.02 |
| Hanover | Connecticut | .17 | | | | T. | | .55 | .01 | T. | | | | | .05 | T. | | | | | .03 | | | | | | | | | | | .11 | 0.92 |
| Keene | do | .55 | .01 | | | | | .41 | T. | | | | | | .10 | | | | | | .05 | | T. | | | | | | | | | T. | 1.02 |
| Nashua | Merrimac | .65 | .01 | | | | T. | .52 | | | | | | | .03 | | | | | | .03 | | | | | | | | | | | .03 | 1.27 |
| Newton | do | .70 | T. | | | | | .50 | | | | | | | .10 | | | T. | | | .03 | | | | | | | | | | | .06 | 1.39 |
| Plymouth | do | .25 | .07 | | | | | .48 | | | | | | | .18 | | | | | | .02 | | | | | | T. | | | | | T. | 1.10 |
| *Vermont.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bloomfield | Connecticut | .15 | | | | | | .53 | | | | | | | .43 | | | | | | .10 | | | | | | | | | | | .05 | 1.28 |
| Cavendish | do | .42 | | | | | | .08 | T. | T. | | | | | | | | | | | .10 | | | | | | | | | | | T. | 0.60 |
| Chelsea | do | .10 | | | | | | .25 | | | | | | | .10 | | | | | | T. | | | | | | T. | | | | | .20 | 0.65 |
| Jacksonville | do | .35 | .10 | | | | .01 | .05 | | | | | | .05 | | | | | | | | | | | | | | | | | .01 | | 0.57 |
| Manchester | Hudson | .23 | | | | | | .63 | | | | | | | .13 | | | | | | .44 | | | | | | | | | | | | 1.43 |
| St. Johnsbury | Connecticut | .35 | .01 | | | | | .46 | T. | T. | | | | | .46 | T. | | | | | .10 | T. | T. | | | | .01 | | | | | .07 | 1.46 |
| Vernon | do | .35 | | | | | | .35 | .15 | | | | | | | | | | | | T. | | | | | | | | | T. | | | 0.85 |
| Woodstock | do | .34 | | | | | | .35 | | | | | | | | | | | | | .18 | | | | | | | | | .04 | | | 0.91 |
| *Massachusetts.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amherst | Connecticut | .46 | .02 | | | | .60 | .16 | | | | | | .02 | .03 | | | | | | .07 | | | | | | | | | | | .01 | 1.37 |
| Ashland | Merrimac | * | .26 | | | | | .43 | | | | | | .07 | | | | | .04 | | .07 | | | | | | | | | | | .04 | 0.91 |
| Bakers Bridge | do | .66 | .11 | | | | | .50 | | | | | | | | | | | | | T. | | | | | | | | | | | | 1.27 |
| Bedford | do | .52 | .10 | | | | | .51 | | | | | | | | | | | | | .08 | | | | | | | | | | | .15 | 1.36 |
| Blue Hill | Coast | .69 | .27 | | | | | .57 | T. | | | | | T. | .12 | | | | .05 | | .05 | .02 | | | | | | | | | | T. | 1.77 |
| Boston | do | .53 | .05 | | | | | .54 | | | | | | T. | .02 | | | | .02 | | .02 | | | | | | | | | | T. | .07 | 1.25 |
| Chestnut Hill | do | .13 | .16 | | | | .44 | .21 | | | | | | | .08 | | | | | | .04 | | | | | | | | | | | .10 | 1.16 |
| Clinton | Merrimac | .25 | .05 | | | | | .71 | | | | | | | .08 | | | | .03 | | .12 | | | | | | | | | | | .04 | 1.28 |
| Concord | do | .66 | .10 | | | | | .60 | T. | | | | | T. | .01 | | | | .01 | | .05 | T. | | | | | | | | | | .01 | 1.44 |
| Fall River | Coast | .60 | .15 | | | | .01 | .67 | | .01 | | | | .04 | .05 | | | | .15 | | .05 | | | | | | | | | | | .05 | 1.86 |
| Fitchburg | Merrimac | .58 | .04 | | | | | .45 | | | | | | | | | | | T. | | .05 | | | | | | | | | | | .02 | 1.14 |
| Framingham | do | | .20 | | | | | .38 | | | | | | .06 | | | | | .02 | | .07 | | | | | | | | | | | .04 | 0.77 |
| Haverhill | do | .72 | .09 | | | | | .48 | | | | | | | .08 | | | | | | T. | .04 | | | | | | | | | | T. | 1.41 |
| Hingham | Coast | .78 | .31 | | | | | .57 | | T. | | | | .05 | T. | | | | .03 | | .07 | | T. | | | | | | | | | .08 | 2.19 |
| Hyannis | do | .74 | .44 | | | | * | 1.05 | | .02 | | T. | | | | | | | | | .20 | | | | | | | | | | | | 2.45 |
| Jefferson | Merrimac | .34 | | | | | | .72 | | | | | | | | | | | | | .17 | | | | | | | | | | | | 1.23 |
| Lake Cochituate | do | * | .21 | | | | | .37 | | | | | | | .05 | | | | .03 | | .06 | | | | | | | | | | | .05 | 0.77 |
| Lawrence | do | .65 | .06 | | | | | .47 | | | | | | | .06 | | | | T. | | .02 | | | | | | | | | | | .06 | 1.32 |
| Leominster | do | .69 | T. | | | | | .50 | | | | | | | | | | | | | .05 | | | | | | | | | | | .05 | 1.29 |
| Lowell | do | | .23 | | | | | .48 | | | | | | | .03 | | | | | | | | | | | | | | | | | | 0.74 |
| Middleboro | Coast | .57 | .13 | | | | | .80 | | | | | | T. | .05 | | | | .09 | | .06 | | | | | | | | | | | | 1.70 |
| Monson | Connecticut | .45 | .10 | | | | | .60 | | | | | | .05 | | | | | .05 | | .05 | .12 | | | | | | | | | | .02 | 1.44 |
| Nantucket | Coast | .67 | .16 | | | | .44 | .87 | | .11 | | .12 | .01 | .05 | | .28 | | | | | T. | .02 | T. | | | | | | | | | .01 | 2.74 |
| Norfolk | do | .70 | .06 | .02 | | | | .42 | | | | | | | T. | | | | T. | | | | | | | | | | | | | | 1.20 |
| Northampton | Connecticut | | | | | | 1.32 | | | | | | | | | | | | | | .35 | | | | | | | | | | | | 1.67 |
| Plymouth | Coast | | .78 | | | | | .70 | | T. | | | | .06 | | | | | .20 | | .08 | | | | .03 | | | | | | | | 1.85 |
| Princeton | Merrimac | * | .65 | | | | | .50 | .04 | | | | | | | | | | | | .20 | | | | | | | | | | | | 1.39 |
| Provincetown | Coast | .55 | .37 | | | | | .68 | | | | | | | | | | | .05 | | | .16 | | | | | | | | | | | 1.81 |
| Rockport | do | .90 | .35 | | | | | .72 | | | | | | | .20 | | | | | | | .15 | | | | | | | | | | | 2.38 |
| Rutland | Connecticut | .06 | .02 | | | | | .51 | | | | | | | .02 | | | | .01 | | .17 | | | | | | | | | | | .02 | 0.81 |
| Salem | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Somerset | do | .81 | .12 | | | | * | 1.27 | | .04 | | | | .07 | | | | | .23 | | .05 | | | | | | | | | | | .05 | 2.64 |
| South Egremont | Housatonic | .25 | | | | | .56 | .50 | | | | | | .10 | | | | | | | .19 | | | | | | | | | | | .05 | 1.65 |
| Spot Pond | Coast | .08 | .16 | | | | .35 | .26 | | | | | | .06 | | | | | .02 | | .05 | | | | .03 | | | | | | | .11 | 1.02 |
| Sterling | Merrimac | .10 | | | | | | .62 | | | | | | | | | | | | | .07 | | | | | | | | | | | .02 | 0.81 |
| Taunton | Coast | | .65 | | | | * | .82 | | T. | | | | * | .07 | | | | .07 | | .09 | | | | T. | | | | | | * | .04 | 1.74 |
| Turners Falls | Connecticut | .52 | | | | | | .61 | | | | | | T. | | | | | | | .03 | | | | | | | | | | | .08 | 1.54 |
| Westboro | Merrimac | * | 1.00 | | | | | .50 | | | | | | | .03 | | | | T. | | | .07 | | | | | | | | | | | | 1.60 |
| Williamstown | Hudson | .30 | | | | | | .47 | | T. | | | | | .05 | | | | | | .18 | | | | | | | | | | | .02 | 1.02 |
| Winchendon | Connecticut | .55 | .15 | | | | | .72 | | | | | | | .04 | | | | | | .05 | | | | | | | | | | | .03 | 1.54 |
| Worcester | Coast | .32 | .14 | | | | | .37 | | | | | | | .01 | | | | T. | | .04 | | | | | | | | | | | .04 | 0.92 |
| *Rhode Island.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Block Island | Coast | .51 | .14 | | | | .17 | .41 | | | | | | .07 | .01 | | | | .20 | | T. | | | | | | | | | | | .05 | 1.58 |
| Bristol | do | | .26 | | | | * | .63 | | .05 | | | | * | .06 | | | | .11 | | .05 | | | | | | | | | | | .05 | 1.21 |
| Greene | do | | .13 | | | | * | .71 | | | | | | .07 | | | | | .05 | | | | | | | | | | | | | .03 | 0.99 |
| Hope Valley | do | .67 | .18 | T. | | | T. | .40 | | .01 | | | | | T. | | | | .18 | | | T. | T. | | T. | | | | | | | T. | 1.44 |
| Kingston | do | .62 | .16 | | | | .03 | .46 | | .05 | | | | | .10 | | | | .15 | | .05 | | | | | | | | | | | T. | 1.62 |
| Narragansett Pier | do | .41 | .14 | | | | .02 | .50 | | T. | | | | .07 | .02 | | | | .25 | | .04 | | | | | | | | | | | .07 | 1.52 |
| Pawtucket | do | | .50 | | | | * | .58 | | * | | | | * | | .08 | | | .01 | | .05 | | | | | | | | | | | .03 | 1.25 |
| Providence | do | .44 | .13 | | | | .14 | .46 | | T. | | | | .04 | .03 | | | | .04 | | .02 | | T. | | T. | | | | | | | .02 | 1.32 |
| Wallum Lake | do | .10 | .20 | | | | .35 | .10 | | | | | | .10 | | | | | | | .10 | | | | | | | | | | | .05 | 1.00 |
| *Connecticut.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bridgeport | Coast | .72 | .20 | | | | T. | .46 | | T. | | | | T. | .13 | | | | .19 | | .06 | .09 | | | | | | | | | | .01 | 1.86 |
| Canton | Connecticut | .06 | .05 | | | | | .42 | | | | | | | | | | | | | .11 | | | | | | | | | | | .05 | 0.69 |
| Colchester | Coast | .65 | .16 | | | | T. | .47 | T. | | | | | | .11 | | | 2.05 | | | .15 | | | | | | | | | | | .05 | 3.04 |
| Cream Hill | Housatonic | .34 | .19 | | | | .16 | | | | | | | | .02 | | | | .02 | | .17 | | | | | | | | | | | | 0.90 |
| Danielson | Coast | | .90 | | | | .55 | | | | | | | | .15 | | | | .05 | | | .10 | | | | | | | | | | | 1.78 |
| Falls Village | Housatonic | .32 | .10 | | | | | .39 | | | | | | .03 | .07 | | .03 | | | | .11 | | | | | | | | | | | .01 | 1.06 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 1*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Connecticut*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Farmington | Connecticut | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hartford | do | .28 | .09 | | | | .05 | .31 | | | | | | .02 | .01 | | | .01 | | | .11 | | T. | | | | | | | | .07 | 0.95 |
| Hawleyville | Housatonic | .60 | .11 | | | | | .24 | | | | | | | .07 | | | .20 | | | | .20 | | | | | | | | | | 1.42 |
| Lake Konomoc | Coast | .91 | .25 | | | | | .50 | | | | | | | | | | .05 | | | | | | | | | | | | | | 1.71 |
| New Haven | do | .39 | .07 | | | | T. | .37 | | T. | | | | .10 | | | | .11 | | | .09 | | T. | | | | | | | T. | .03 | 1.16 |
| New London | do | .97 | .24 | .04 | | | T. | .09 | | T. | | | | T. | | | | .09 | | | .03 | | T. | | T. | | | | | | | 1.46 |
| North Grosvenordale | do | .12 | .19 | | | | | .20 | | | | | | | .15 | | | .05 | | | .10 | | | | | | | | | | | 0.81 |
| Norwalk | do | * | .36 | | | | | .54 | | T. | | | | .13 | | | | .14 | | | .12 | | | | | | | | | | .03 | 1.32 |
| Southington | do | .55 | .10 | T. | | | T. | .25 | | | | | | | T. | | | .05 | | | | .05 | | | | | | | | | T. | 1.00 |
| South Manchester | Connecticut | .25 | .10 | | | | * | .37 | | | | | | | | | | | | | | | | | | | | | | | .09 | 0.81 |
| Storrs | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Torrington | Housatonic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voluntown | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wallingford | do | .08 | .05 | | | | .36 | | | | | | | .10 | | | T. | .06 | | | .05 | | | | | | | | | | .02 | 0.72 |
| Waterbury | Housatonic | .57 | .10 | | | | * | .32 | | T. | | | | .02 | | | | .07 | | | .08 | | | | | | | | | | | 1.16 |
| West Simsbury | Connecticut | * | .10 | | | | T. | .42 | | | | | | | .02 | | | .02 | | | .04 | | | | | | | | | | .04 | 0.64 |
| *New York.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Addison | Susquehanna | .07 | | | | | * | .15 | | | | | | T. | .02 | .01 | | T. | | | .04 | | T. | | | | | | | | T. | 0.29 |
| Albany | Hudson | .07 | .01 | | | | | .37 | T. | T. | | | | T. | T. | | T. | T. | | | .04 | | T. | | | | | | | T. | .03 | 0.52 |
| Alfred | Susquehanna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amsterdam | Mohawk | | | | | | | .55 | T. | | | | | .03 | T. | | T. | | | | .12 | | T. | | | | | | | | * | 0.70 |
| Athens | Hudson | .14 | .01 | | | | | .40 | T. | T. | | | | T. | T. | | T. | T. | | | .04 | | T. | | | | | | | | T. | 0.59 |
| Ballston Lake | do | .17 | T. | | | | | .22 | .02 | | | | | T. | T. | | | T. | | | .13 | | | | | | | | | | .01 | 0.55 |
| Bedford | Coast | .11 | .02 | | | | | | | | | | | | .10 | | | .15 | | | .02 | | | | | | | | | | | 0.40 |
| Binghamton | Susquehanna | .29 | | T. | | | T. | .20 | T. | T. | | | | T. | T. | .01 | T. | | | | .08 | | T. | | | | | | | .10 | T. | 0.68 |
| Bouckville | do | .16 | | | | | | .25 | .15 | | | | | .03 | .15 | .10 | | | | | .24 | | | | | | | | | | .08 | 1.16 |
| Carmel‖ | Hudson | .65 | .14 | | | | | .26 | | | | | | .08 | | | | .08 | | | .07 | | | | | | | | | | T. | 1.28 |
| Chatham | do | .37 | | | | | | .50 | T. | | | | | | .01 | | | | | | .09 | | | | | | | | | | T. | 0.97 |
| Cooperstown | Susquehanna | .40 | .02 | | | | | .55 | .06 | | | | | .08 | .04 | | | | | | .05 | | | | | | | | | | .03 | 1.23 |
| Corinth‖ | Hudson | .34 | | | | | | .50 | | | | | | | | | | | | | .15 | | | | | | | | | | T. | 0.99 |
| Cortland | Susquehanna | .14 | | | | | | .28 | .03 | | | | | | .07 | | | | | | | .06 | .01 | | | | | | | | | .01 | 0.60 |
| Cutchogue | Coast | .88 | .44 | | | | | .33 | T. | .10 | | | | .08 | | | | .20 | | | | .11 | | | | | | | | | | 2.14 |
| De Ruyter | Susquehanna | .15 | T. | | | | | .15 | T. | T. | | | | .19 | .05 | .03 | T. | | | | .20 | | T. | | | | | | | T. | T. | 0.77 |
| Easton | Hudson | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | T. |
| Elmira | Susquehanna | .14 | | | | | | | | | | | | | | | | | | | .02 | | | | | | | | | | | 0.16 |
| Fort Hunter‖ | Mohawk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fort Plain | do | .02 | | | | | | .38 | .02 | | | | | T. | .02 | T. | T. | | | | .11 | T. | | | | | | | | | | .03 | 0.58 |
| Glens Falls | Hudson | .36 | .04 | | | | T. | .40 | | | | | | T. | T. | | | | | | .05 | | | | | | | | | | .08 | 0.93 |
| Gloversville | Mohawk | .20 | | | | | | .40 | .08 | | | | | .06 | .07 | | | | | | .20 | | | | | | | | | | .04 | 1.05 |
| Greenfield Center | Hudson | .42 | | | | | | .20 | | | | | | | | | | | | | .15 | | | | | | | | | | .08 | 0.85 |
| Greenwich | do | .27 | .01 | | | | | .37 | T. | | | | | T. | T. | | | | | | .02 | | | | | | | | | | .01 | 0.68 |
| Griffin Corners | Delaware | .18 | | | | | | .41 | | | | | | | | | | | | | .16 | | | | | | | | | | | 0.75 |
| Haskinville | Susquehanna | | | | | | | .29 | | | | | | | .10 | | | | | | | | | | | | | | | | | 0.39 |
| Homer | do | .09 | | | | | | .05 | T. | T. | | | | .23 | .08 | .01 | T. | | | | .12 | | T. | | | | | | | | .01 | .02 | 0.61 |
| Hoosick Falls‖ | Hudson | .15 | .06 | | | | | .40 | .08 | | | | | | .02 | | | | | | | .11 | | | | | | | | | T. | .05 | 0.87 |
| Indian Lake | do | .20 | .05 | | | | | .90 | .30 | .05 | | | | | | | | | | | .40 | | | | | | | | | | .30 | 2.20 |
| Jeffersonville | Delaware | .43 | | T. | | | | .34 | T. | T. | | | | T. | T. | | | T. | | | .12 | | T. | | | | | | | | .05 | T. | 0.94 |
| Lake Pleasant | Hudson | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liberty | Delaware | 1.10 | | T. | | | | .40 | | | | | | | | T. | T. | T. | | | .50 | | | | | | | | | | .20 | .10 | 2.30 |
| Little Falls | Mohawk | .37 | | | | | | .03 | .51 | T. | | | | .09 | .08 | T. | | | | | .26 | | | | | | | | | | T. | .13 | 1.47 |
| Mohonk Lake | Hudson | .60 | | | | | | .38 | | | | | | | | | | | | | T. | | | | | | | | | | | | 0.98 |
| Morehouseville | Mohawk | .20 | | | | | | .25 | .05 | .03 | | | | | .10 | | | | | | .30 | | | | | | | | | | | .15 | 1.08 |
| Mount Hope | Coast | .20 | | | | | | .25 | T. | | | | | | .10 | | | .40 | | | | .15 | | | | | | | | | | .12 | 1.22 |
| Newark Valley | Susquehanna | | | | | | | .25 | | | | | | T. | .05 | | | | | | | | T. | | | | | | | | .02 | 0.32 |
| New Berlin‖ | do | .35 | .01 | | | | | .29 | .03 | | | | | | | .01 | | | | | | .06 | | T. | | | | | | | | 0.75 |
| New Lisbon | do | .46 | | | | | | .28 | | | | | | .02 | .03 | | T. | | | | .14 | | | | | | | | | | .03 | 0.96 |
| New York | Coast | .21 | .24 | | | | | .16 | T. | T. | | | | .05 | | | | .15 | | | .05 | | | | T. | | | | | | T. | 0.86 |
| North Creek | Hudson | .10 | .01 | | | | | .55 | .02 | | | | | .01 | | | | | | | .07 | | | | | | | | | | .02 | 0.78 |
| Northville‖ | do | .45 | | | | | .83 | | | | | | | | | | | | .18 | | | | | | | | | | | .10 | | 1.56 |
| Norwich | Susquehanna | .60 | .14 | | | | | .42 | .01 | | | | | | .24 | T. | | | | | T. | .24 | | | | | | | | | .12 | T. | 1.77 |
| Oneonta | do | .31 | | | | | | | .04 | | | | | | | | | | | | .14 | | | | | | | | | | | 0.49 |
| Oxford | do | .43 | | | | | | .56 | .08 | T. | | | | | .04 | | T. | | | | .18 | T. | T. | | | | | | | | T. | T. | 1.29 |
| Port Jervis | Delaware | .27 | .22 | .04 | | | | .31 | .02 | .01 | | | | .06 | | | | .08 | | | .12 | | | | | | | | | | .07 | | 1.20 |
| Salisbury | Mohawk | .41 | .08 | | | | | .65 | .14 | | | | | .24 | .08 | | | | | | .46 | | | | | | | | | | | .20 | 2.26 |
| Salisbury Mills | Hudson | .63 | .20 | | | | | .44 | | | | | | | .13 | | | T. | .08 | | | .12 | | | | | | | | | .03 | | 1.63 |
| Scarsdale | Coast | .75 | .10 | T. | | | | | T. | T. | | | | T. | .30 | | | .20 | | | .05 | | | | | | | | | | T. | T. | 1.40 |
| Setauket | do | .70 | .38 | T. | | | T. | .17 | T. | T. | | | | T. | .10 | T. | | .17 | | | T. | .04 | T. | | T. | | | | | | | T. | 1.56 |
| Sherburne‖ | Susquehanna | .39 | | | | | | .30 | .10 | | | | | | .06 | .10 | T. | | | | | .08 | | | | | | | | | | T. | 1.03 |
| Southampton | Coast | .71 | .18 | T. | | | T. | .40 | T. | .10 | | | | | .05 | | | .21 | | | | .05 | T. | | T. | | | | | | | 1.70 |
| Spier Falls | Hudson | .51 | | | | | | .46 | | | | | | | T. | | | | | | .09 | | | | | | | | | | T. | T. | 1.06 |
| Trenton Falls‖ | Mohawk | .21 | T. | | | | T. | .45 | T. | .02 | T. | | | | T. | T. | T. | | | | * | .25 | T. | T. | | | | | | | | T. | 0.93 |
| Tribeshill‖ | do | .40 | | | | | | .40 | | | | | | .20 | .05 | | | | | | .30 | | | | | | | | | | .10 | 1.45 |
| Utica‖ | do | * | .17 | | | | * | .15 | .20 | .15 | | | | * | .14 | .03 | | | | | T. | .09 | | | | | | | | | * | .05 | 0.98 |
| Wading River | Coast | 1.08 | .48 | | | | .04 | .30 | T. | .07 | | | | * | .07 | | | .15 | | | * | .12 | .02 | | | | | | | | | | 2.33 |
| Wappingers Falls | Hudson | .64 | T. | .06 | | | | .15 | .10 | | | | | .08 | T. | | | .08 | | | .18 | | | | | | | | | | T. | .12 | 1.41 |
| Warwick | do | .30 | .10 | | | | | .50 | | T. | | | | .08 | | | | .08 | | | .15 | | | | | | | | | | .05 | | 1.26 |
| Waverly | Susquehanna | .20 | | | | | | .22 | T. | | | | | | .02 | | | T. | | | .04 | | .02 | | | | | | | | T. | | 0.50 |
| West Berne | Mohawk | T. | | | | | | | | | | | | | | | T. | | | | T. | | | | | | | | | | | T. | T. |
| West Point | Hudson | .70 | | | | | | .30 | | | | | | | | | | .20 | | | .10 | | | | | | | | | | .20 | | 1.50 |
| Windham | Mohawk | | | | | | | .56 | T. | | | | | | .10 | | | | | | .18 | | | | | | | | | | | | 0.84 |
| *Pennsylvania.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Altoona | Susquehanna | T. | | | | | .18 | .11 | | | | | | .13 | | T. | | .07 | | | .02 | | | | | | | | | T. | .02 | | 0.46 |
| Ansonia‖ | do | .13 | | T. | T. | | | .22 | | | | | | | | | | | | | | T. | | | | | | | | | | | 0.42 |
| Bellefonte | do | | | | | | .13 | | | | | | | .14 | | | | | | | | | | | | | | | | | | | 0.27 |
| Bethlehem | Lehigh | .38 | T. | T. | | | | .19 | T. | | | | | .05 | | | | .10 | | | .11 | T. | | | | | | | | | | | 0.83 |
| Browers Lock | Schuylkill | .72 | | | | | | .15 | | | | | | | | | | | | | .15 | | | | | | | | | | | | 1.02 |
| Catawissa | Susquehanna | T. | | .01 | | | | .20 | | | | | | .08 | | | | .05 | | | .25 | | .01 | | | | | | | | | | 0.60 |
| Center Hall | do | | | | | | | T. | | | | | | T. | T. | | | .03 | | | T. | | | | | | | | | | | | 0.03 |
| Clearfield | do | | | | | | T. | .46 | | | | | | | T. | | | .08 | | | T. | | | | | | | | | .34 | | | 0.88 |
| Coatesville | Coast | .15 | .07 | | | | | .10 | | | .07 | | | | | .05 | | .01 | | | .04 | | | | | | | | | | | | 0.49 |
| Doylestown | Schuylkill | .32 | .24 | | | | | .30 | | | | | | | | | | .03 | | | | | | | | | | | | | | | 0.89 |
| Drifton | Susquehanna | .35 | .05 | | | | | .35 | | | | | | | .10 | .02 | | .10 | | | .25 | | .02 | | | | | | | | T. | | 1.24 |
| Emporium | do | .05 | | .02 | | | .01 | .05 | | | | | | .06 | .10 | | | .05 | | | .25 | T. | | | | | | | | | | | 0.59 |
| Ephrata | do | .13 | .04 | | | | | T. | | | .02 | T. | | .01 | | T. | | .03 | | | * | .03 | | | | | | | | | | | 0.26 |
| Everett | Juniata | .13 | | | | | | .19 | | | | | | T. | T. | T. | | | | | .27 | | | | | | | | | | | | 0.59 |
| Forks of Neshaminy | Delaware | | .06 | | | | | .11 | | | | | | | | | | .03 | | | .09 | .01 | | | | | | | | | | | 0.30 |
| George School | do | 1.02 | .03 | | | | | .12 | | T. | | | T. | | .05 | | | T. | | | * | .11 | | | | | | | | | | | 1.33 |
| Gettysburg | Potomac | .28 | .01 | | | | | .09 | | | .08 | .02 | | | | | | T. | | | T. | | | T. | | | | | | | | | 0.48 |
| Girardville | Susquehanna | .20 | .05 | T. | | | | .22 | | | | | | .09 | T. | T. | T. | .01 | | | .20 | | .02 | | | | | | | | T. | T. | 0.79 |
| Gordon | do | .25 | .02 | .02 | | | | .24 | | | | | | | | | | T. | | | | .06 | | | | | | | | | | | 0.59 |
| Hamburg | Schuylkill | | | | | | | .36 | | | | | | | | | | | | | | | | | | | | | | | | | 0.36 |
| Hanover | Susquehanna | .20 | | | | | | .05 | | | .11 | | | | | | | | | | T. | | | | | | | | | | | | 0.36 |
| Harrisburg | do | .08 | .01 | | | | T. | .08 | | T. | | | | T. | | | | .02 | | | .06 | | T. | | | | | | | | T. | T. | 0.25 |
| Huntingdon | Juniata | .14 | | | | | | .25 | | | | | | .12 | T. | | | .03 | | | .02 | | | | | | | | | | .02 | | 0.58 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 1*—Continued

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Pennsylvania*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyndman | Potomac | .08 | | | | | .04 | T. | | | T. | | T. | .13 | T. | T. | | T. | | T. | .03 | | T. | | | | | | | T. | | T. | 0.28 |
| Kennett Square | Coast | .23 | | | | | T. | .11 | | | .07 | | T. | | .05 | | | T. | | | | | T. | | | | | | | | | 0.46 |
| Lancaster | Susquehanna | T. | | | | | | .12 | | | | T. | | | | | | .01 | | | .07 | | T. | | | | | | | | | 0.23 |
| Lansdale | Schuylkill | .14 | .02 | | | | | .16 | | | | | | | | | | | | | .11 | .04 | .07 | | | | | | | | | 0.52 |
| Lawrenceville | Susquehanna | .05 | | | | | | .10 | | | | | | T. | | | | | | | T. | | | | | | | | | T. | | | 0.15 |
| Lebanon | do | .28 | .04 | T. | | | | .18 | | | T. | | T. | | .01 | .01 | | .06 | | | .13 | .04 | T. | | | | | | | T. | T. | 0.75 |
| Le Roy | do | .37 | .01 | .06 | | | | .18 | | | | | | .01 | .05 | .02 | | .15 | | | .03 | | T. | | | | | | | .01 | T. | 0.89 |
| Lewisburg | do | .22 | .20 | .01 | | | | .10 | | | | | | .05 | | .01 | | .10 | | | .03 | | | | | | | | | | | 0.72 |
| Lock Haven | do | .26 | | | | | | .18 | | | | | | .10 | | | | .10 | | | .06 | | .01 | | | | | | | | T. | 0.71 |
| Marion | Potomac | .20 | | | | | T. | | | | T. | | | | | | | | | | .16 | | .02 | | | | | | | | | 0.20 |
| Mauch Chunk | Delaware | .26 | .03 | T. | | | | .24 | | | | | | .11 | | | | T. | | | .04 | | | | | | | | | | | 0.82 |
| Mifflintown | Juniata | .05 | | | | | | .08 | | | | | | .05 | | | | | | | .20 | | | | | | | | | | .08 | 0.22 |
| Milford | Delaware | | | | | | | .31 | .01 | .01 | | | | | .04 | | | .02 | | | .22 | | | | | | | | | T. | .08 | 0.67 |
| Montrose | Susquehanna | .11 | | | | | | .39 | | .03 | | | | | | T. | | .08 | | | .19 | | | | | | | | | | | 0.40 |
| Mountain House | Juniata | | | | | | .21 | | | | | | | | | | | | | | | | | | | | | | | | | 0.14 |
| Muncy Valley | Susquehanna | T. | | | | | | T. | | | | | | 14 | T. | | T. | T. | | T. | T. | | | | | | | | | | | 0.24 |
| New Germantown | do | | | | | | | .20 | | | | | | | T. | | | | | | .04 | | | | | | | | | | | 0.93 |
| Ottsville | Delaware | .43 | .05 | | | | | .15 | | | | | | .06 | | | | .06 | | | | .18 | | | | | | | | | | 0.38 |
| Philadelphia (1) | do | .28 | .01 | T. | | | | .05 | | | .01 | | .01 | T. | T. | | | .01 | | | .01 | | | | | | | | | | T. | 1.21 |
| Pocono Lake | do | .32 | | | | | | .41 | .10 | | | | | | .10 | | | .10 | | | .18 | | | | | | | | | | | 1.09 |
| Point Pleasant | do | .60 | .18 | | | | | .12 | | | | | | | | | | .10 | | | .09 | | | | | | | | | | | 0.49 |
| Pottsville | Schuylkill | .07 | | | | | | .24 | | | | | | .01 | | | | .05 | | | .11 | | | | | | | | | | .01 | 0.89 |
| Reading | do | .20 | .17 | | | | .04 | .10 | | | | | | .02 | | | | .13 | | | .23 | | | | | | | | | | | 0.60 |
| Renova‖ | Susquehanna | .22 | .02 | | | | | .04 | | | | | | | .08 | .01 | | .20 | | | .02 | .01 | | | | | | | | | | 0.77 |
| Scranton | do | .02 | | T. | | | T. | .43 | T. | .02 | | | | .04 | .02 | T. | T. | .11 | | | .11 | | .02 | | | | | | | T. | T. | 0.68 |
| Seisholtzville | Schuylkill | .15 | .01 | | | | | .19 | | | | | | .04 | | | | .11 | | | .18 | | | | | | | | | | | 0.35 |
| Selinsgrove | Susquehanna | .02 | .01 | | | | | .14 | | | | | | | | | | T. | | | .18 | | T. | | | | | | | | T. | 0.65 |
| Shawmont | Schuylkill | .45 | .05 | | | | | .12 | | | | | | | | | | | | | .03 | | | | | | | | | | | 0.98 |
| Smiths Corners | do | .34 | .21 | | | | | .17 | | | | | | .09 | | | | .06 | | | .11 | | | | | | | | | | | 0.67 |
| Spring Mount | do | .31 | .10 | | | | | .10 | | | | | | .02 | | | | .04 | | | .10 | | | | | | | | | | | 0.60 |
| State College | Susquehanna | .15 | | | | | | .27 | T. | | | | | .09 | .02 | .01 | | .04 | | | T. | T. | | | | | | | | .02 | | | 0.71 |
| Towanda | do | .20 | | .02 | | | | .28 | T. | | | | | T. | .01 | T. | T. | .10 | | | .09 | | .01 | | | | | | | | T. | T. | 0.61 |
| Wellsboro | do | .15 | | | | | | .21 | | | | | | | | | | .17 | | | .08 | | | | | | | | | | | 0.52 |
| West Chester | Coast | .20 | .06 | | | | | .11 | | | .07 | | | | | .01 | | .01 | | | .04 | .02 | | | | | | | | | | | 0.42 |
| Wilkes-Barre | Susquehanna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Williamsport | do | .18 | .03 | | | | | .11 | | | | | | | | | | .04 | | .03 | .03 | | T. | | | | | | | | | |
| *New Jersey.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asbury Park | Coast | .65 | .10 | | | | | .12 | | | | | | | | | | .02 | | | .01 | | | | | | | | | | | 0.90 |
| Atlantic City | do | .57 | T. | | | | | .23 | | | .27 | | .20 | T. | | | | T. | | | T. | | T. | | | | | | | | | 1.27 |
| Bayonne | do | 1.09 | .26 | T. | | | | .10 | T. | T. | | | | .04 | | | | .10 | | | .05 | | T. | | T. | | | | | T. | T. | 1.64 |
| Belvidere | Delaware | .33 | .07 | .03 | | | | .41 | | | | | | .10 | | | | .33 | | | .28 | | | | | | | | | | | 1.55 |
| Bergen Point | Coast | 1.07 | .20 | .03 | | | | .15 | T. | T. | | | | .03 | | | | .20 | | | .08 | | | | | | | | | | T. | 1.76 |
| Boonton‖ | Passaic | .75 | .18 | .24 | | | | .19 | .02 | T. | | | | * | .22 | | | * | .10 | | * | .20 | | | | | | | | | | 1.90 |
| Bridgeton | Coast | .06 | .13 | | | | T. | .11 | | | .18 | | .22 | | | | | | | | .12 | | | | | | | | | | | 0.84 |
| Burlington‖ | Delaware | .11 | T. | | | | | .08 | | | T. | | T. | T. | | | | .01 | | | .09 | | | | | | | | | | | 0.29 |
| Canton | Coast | .66 | .06 | | | | | .08 | | | .13 | | .23 | | | | | | | | .13 | | | | | | | | | | | 1.31 |
| Cape May | do | 1.27 | .07 | | | | T. | .06 | | | .49 | .01 | .44 | T. | | T. | | T. | | | .02 | | | | | | | | | | T. | 2.36 |
| Charlotteburg | Passaic | .10 | | | | | | .22 | | | | | | .17 | | | | .08 | | | .26 | | | | | | | | | | | 0.83 |
| Chatham‖ | do | .95 | .10 | .30 | | | | .20 | | | | | | * | .10 | | | .05 | .10 | | * | .12 | | | | | | | | | | 1.92 |
| Clayton | Coast | * | 1.07 | | | | | .02 | | | .05 | | .22 | | | | | T. | | | | | | | | | | | | | | 1.36 |
| College Farm | do | 1.34 | .06 | .02 | | | | .12 | T. | | | | | .04 | | | | .09 | | | .06 | | | | T. | | | | | | T. | 1.73 |
| Culvers Lake | Delaware | .34 | .38 | T. | | | | .35 | | .02 | | | | .03 | | | | .01 | | | .14 | T. | | | | | | | | | .20 | 1.49 |
| Dover | Passaic | .21 | | T. | | | | .30 | | | | | | .22 | | | | .10 | | | .20 | | | | | | | | | | | 1.03 |
| Elizabeth | Coast | * | 1.36 | | | | | .30 | | T. | | | | .03 | | | | .16 | | | .17 | | | | | | | | | | T. | 2.04 |
| Flemington | do | .77 | .22 | | | | | .11 | T. | | | | | .03 | | | | .06 | | | .16 | | | | | | | | | | | 1.35 |
| Friesburg | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Haddonfield | Delaware | .74 | .05 | T. | | | | .08 | | | .01 | | .01 | T. | | | | T. | | | .06 | | | | | | | | | | | 0.95 |
| Hammonton | Coast | .95 | .23 | | | | | .05 | | | T. | | .20 | | | | | T. | | | .01 | | | | | | | | | | | 1.44 |
| Hightstown | Delaware | .34 | .07 | | | | | .05 | | | | | T. | .05 | | | | .06 | | | .05 | | | | | | | | | | | 0.62 |
| Imlaystown | do | * | .14 | | | | | .14 | | | | | .02 | .01 | | | | .04 | | | .07 | | T. | | | | | | | | | 0.42 |
| Indian Mills | Coast | .70 | .27 | | | | .05 | .04 | | | .04 | | .15 | | | | | .02 | | | .05 | | | | | | | | | | | 1.32 |
| Jersey City | do | .21 | .32 | T. | | | | .14 | T. | T. | | | | .04 | | | | .19 | | | .06 | | T. | | | | | | | | T. | 0.96 |
| Lakewood | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lambertville | Delaware | 1.12 | .09 | T. | | | | .10 | | | | | | .03 | | T. | | .12 | | | .10 | | T. | | | | | | | | | 1.56 |
| Layton | do | * | .25 | | | | | .37 | | | | | | | | | | T. | | | .19 | | | | | | | | | | .20 | 1.01 |
| Little Falls | Passaic | .21 | .28 | T. | | | | .12 | | | | | | .15 | | | | .11 | | | .10 | | | | | | | | | | T. | 0.97 |
| Long Branch | Coast | .36 | .42 | | | | | .13 | | | | | | | | | | .10 | | | T. | | | | | | | | | | | 1.01 |
| Mahwah‖ | Passaic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moorestown | Delaware | .29 | .06 | | | | | .07 | | | T. | | .01 | T. | | | | T. | | | .03 | | T. | | T. | | | | | | T. | 0.46 |
| Newark | Passaic | .14 | .27 | | | | | .06 | | | | | | .08 | | | | .12 | | | .05 | | | | | | | | | | | 0.72 |
| New Brunswick | Coast | * | .16 | T. | | | | .12 | | | | | | .05 | | | | .10 | | | .05 | | | | | | | | | | | 0.48 |
| Newton | Delaware | .44 | .07 | | | | | .35 | | | | | | | | | | .16 | | | .15 | | | | | | | | | | | 1.17 |
| Northfield | Coast | .62 | .16 | | | | | .06 | | | .24 | | .25 | | | | | | | | | | | | | | | | | | | 1.33 |
| Oceanic | do | 1.20 | .13 | | | | | .30 | | .04 | | | T. | .03 | | | | .11 | | | .06 | | | | | | | | | | | 1.87 |
| Paterson | Passaic | .62 | .22 | T. | | | | .14 | | T. | | | | .16 | | | | .12 | | | .08 | | T. | | | | | | | | T. | 1.34 |
| Phillipsburg | Delaware | .21 | .02 | T. | | | | .30 | | | | | | .11 | | | | .07 | | | .22 | | | | | | | | | | T. | 0.93 |
| Plainfield | Coast | .22 | .24 | T. | | | | .16 | T. | | | | | .08 | | | | .12 | | | .06 | | | | | | | | | | T. | 0.88 |
| Pleasantville | do | .68 | .07 | | | | | .10 | | | .20 | .03 | .23 | | | | | | | | | | | | | | | | | | | 1.31 |
| Pompton Plains‖ | Passaic | .71 | .14 | .06 | | | | .25 | | | | | | | .12 | | | * | .06 | | * | .04 | | | | | | | | | | | 1.38 |
| Rancocas | Delaware | .47 | T. | | | | | .10 | | T. | | | T. | .01 | T. | | | T. | | | .02 | | T. | | | | | | | | T. | 0.60 |
| Rivervale | Coast | 1.10 | .80 | | | | | | | | | | | .03 | | | | .20 | | | | | | | | | | | | | | 2.13 |
| Runyon | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Somerville | do | .80 | .30 | | | | | .27 | | | | | | .08 | | | | .15 | | | .10 | | | | | | | | | | | 1.70 |
| South Orange | do | .62 | .33 | | | | | .24 | | | | | | .10 | | | | .13 | | | .08 | | | | | T. | | | | | T. | 1.50 |
| Sussex | Hudson | .39 | .02 | | | | | | | T. | | | | | | | | T. | | | .40 | | | | | | | | | .07 | | 0.88 |
| Trenton | Delaware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tuckerton | Coast | .66 | .25 | .02 | | | | .07 | | | .10 | | .22 | | | | | T. | | | | | | | | | | | | | | 1.32 |
| Vineland | do | .80 | .24 | | | | | .06 | | | .05 | | .21 | | | | | T. | | | | .02 | | | | | | | | | | 1.38 |
| Woodbine | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *West Virginia.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bayard | Potomac | .10 | .03 | | | | | .05 | | | .10 | | T. | | .10 | .10 | | .10 | | T. | T. | .13 | T. | T. | | | | | | T. | T. | 0.71 |
| Burlington | do | | | | | | | | | | .30 | | | .10 | | | | | | | | | | | | | | | | | | 0.40 |
| Franklin | do | | | | | | | | | | .20 | | | | | | | | | | | | | | | | | | | | | 0.20 |
| Harpers Ferry‖ | do | .66 | | | | | T. | | | | .20 | | | | | | | | | | | | | | | | | | | | | 0.86 |
| Lost City | do | | T. | | | .07 | | | | T. | | T. | | T. | | | T. | | .34 | .08 | | | | | | | | | | | | 0.49 |
| Martinsburg‖ | do | | | | | | .07 | | | | .10 | | | T. | T. | | | T. | | | T. | | | | | | | | | T. | | | 0.17 |
| Moorefield | do | .13 | | | | | | | | | .50 | T. | T. | T. | T. | | | | | | T. | | T. | | | | | | | | | 0.63 |
| Romney‖ | do | .30 | | | | | T. | .10 | | | T. | T. | .10 | | | | | | T. | | | .10 | | | | | | | | | .05 | T. | 0.65 |
| Upper Tract | do | .05 | | | | | | | | | .17 | .05 | | | T. | | | | | | | T. | | | | | | | | | | | 0.27 |
| *Maryland.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Annapolis | Coast | 1.45 | | .20 | | | .06 | | | | | | T. | .51 | | | | | | | .06 | | | | | | | | | | | 2.28 |
| Bachmans Valley | do | .42 | .05 | | | | | .08 | | | T. | .20 | | | | | | | | | .03 | | | | | | | | | | | 0.80 |
| Baltimore | do | .12 | .03 | | | | .06 | | | | .21 | | T. | T. | T. | | | T. | | | .04 | | T. | | | | | | | T. | | T. | 0.46 |
| Cambridge | do | 1.98 | .11 | | | | | .07 | | | .50 | | 1.20 | | | | | | | | | | | | | | | | | | | | 3.86 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 1*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Maryland*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cheltenham | Coast | 1.04 | .05 | .02 | | | | | | | .18 | .32 | .10 | | | | | | | | | | | | | | | | | | | | 1.71 |
| Chester | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chestertown | do | 1.25 | .14 | | | | .05 | .03 | | | .20 | .05 | .18 | | | | | | | | | | | | | | | | | | | | 1.90 |
| Chewsville | Potomac | | | | | | | .01 | | | .07 | | | T. | T. | T. | | T. | | | T. | | T. | | | | | | T. | | | 0.08 |
| Clear Spring[1] | do | .50 | | T. | | | | .03 | | | | .15 | | | .02 | | | T. | | | | .01 | | T. | | | | | | | | 0.71 |
| Coleman | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| College Park | do | .90 | | | | | | | | | .12 | .15 | | | | | | | | | | | | | | | | | | | | | 1.17 |
| Cumberland | do | .25 | T. | | | | .05 | | | | T. | T. | | .05 | | | | .02 | | | | | | | | | | | | | | | 0.37 |
| Darlington | Coast | | .03 | | | | | T. | | | .18 | | T. | | | | | | | | T. | T. | | | | | | | | | | | 0.21 |
| Denton | do | .52 | .11 | | | | | T. | | | .24 | .06 | .34 | | | | | | | | | | | | | | | | | | | | 1.27 |
| Easton | do | 1.05 | .31 | | | | | | | | .36 | .27 | | | | | | | | | | | | | | | | | | | | | 1.99 |
| Emmitsburg | Potomac | .41 | | | | | | .10 | | | T. | .11 | | | | | | | | | .08 | | | | | | | | | | | | 0.70 |
| Fallston | Coast | .43 | .08 | | | | .02 | | | | .20 | .04 | .02 | T. | | | | T. | | | .01 | .04 | | | | | | | | | | | 0.84 |
| Frederick | Potomac | .16 | .01 | | | | | .08 | | | .17 | .02 | | T. | T. | | | T. | | | .05 | | T. | | | | | | | | | | 0.49 |
| Frostburg | do | .06 | | | | | | .06 | | | .06 | | .01 | | .02 | .03 | | .12 | | | .02 | | T. | | | | | | | T. | | | 0.38 |
| Great Falls | do | | .09 | .02 | | | | | | | .30 | | | | | | | | | | | .01 | | | | | | | | | | | 0.42 |
| Green Spring Furnace | do | .22 | | | | | | .02 | | | .05 | .10 | | | | | | .02 | | | | T. | .04 | | | | | | | | | | 0.45 |
| Keedysville | do | .16 | T. | | | | | .05 | | | .09 | .04 | | T. | T. | | | T. | | | .03 | | T. | | | | | | | | T. | | 0.37 |
| Lake Montebello | Coast | .19 | .01 | T. | | | | T. | | | * | .19 | T. | T. | T. | | | | | | * | .02 | T. | | | | | | | | T. | T. | 0.41 |
| La Plata | do | .90 | .10 | | | | | .10 | | | .20 | .05 | .08 | | | | | | | | | .07 | | | | | | | | | | | 1.50 |
| Laurel | do | .25 | .06 | | | | T. | | | | .20 | .05 | | | | | | | | | | | | | | | | | | | | | 0.56 |
| Monrovia | Potomac | .25 | .01 | | | | | .08 | | | .19 | .05 | | | | | | T. | | | .08 | .01 | T. | | | | | | | | | | 0.67 |
| Pocomoke City | Coast | * | 1.75 | | | | | | | | * | .46 | * | 1.18 | | | | | | | | | | | | | | | | | | | 3.39 |
| Porto Bello | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Princess Anne | do | 1.44 | .42 | | | | | .04 | | | .35 | .30 | .67 | | | | | | | | | | | | | | | | | | | | 3.22 |
| Rockville | Potomac | .04 | .06 | .01 | | | | .07 | | | .18 | .02 | T. | | T. | | | T. | | | | .03 | | T. | | | | | | | | | 0.41 |
| Salisbury | Coast | 1.48 | .50 | | | | | | | | .50 | .10 | .68 | .06 | | | | | | | | | | .03 | | | | | | | | | 3.35 |
| Sanatorium | Potomac | .34 | T. | | | | | T. | | | T. | .12 | | | | T. | | | | | T. | T. | T. | T. | | | | | | | | | 0.46 |
| Solomons | Coast | 1.16 | .11 | | | | | T. | | | .25 | .05 | .54 | | | | | T. | | | | | | | | | | | | | T. | | 2.12 |
| Sudlersville | do | 1.12 | .10 | .01 | | | .03 | .04 | | | .20 | .05 | .22 | | T. | | | T. | | | | .12 | | T. | T. | | | | | | | | 1.89 |
| Takoma Park[1] | do | .85 | .12 | .07 | | | | .05 | | | | .25 | T. | T. | | | | | | | | T. | | | | | | | | | | | 1.34 |
| Taneytown | Potomac | .15 | | | | | | .12 | | | .12 | | | | | | | | | | .08 | | | | | | | | | | | | 0.47 |
| Towson | Coast | .54 | .02 | T. | | | | T. | | | .14 | .08 | | | | | | | | | | .03 | | | | | | | | | | | 0.81 |
| Van Bibber | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Westernport | Potomac | .08 | | | | .05 | | | | | .08 | | | | .02 | | | | | | | | | | | | | | | | | | 0.23 |
| Woodstock | Coast | .24 | .04 | | | | | T. | | | .08 | .02 | | | | | | | | | | | .08 | | | | | | | | | | 0.46 |
| *Delaware.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delaware City | Coast | 1.31 | T. | | | | | T. | | | .05 | .04 | .07 | | | T. | | | | | | | | | | | | | | | | | 1.47 |
| Dover | do | * | 1.22 | | | | | T. | | | .20 | | .02 | | | | | | | | T. | | | | | | | | | | | | 1.44 |
| Milford | do | 1.63 | .40 | .03 | | | | .08 | | | .25 | .18 | .58 | .06 | .01 | T. | | | | | | | | | | | | | | | | | 3.22 |
| Millsboro | do | .60 | .80 | | | | | .13 | | | .35 | .25 | .63 | | | | | | | | | T. | | | | | | | | | | | 2.76 |
| Seaford | do | 1.90 | .36 | | | | | .36 | | | .81 | .04 | .49 | .06 | | | | T. | | | | | | | | | | | | | | | 4.02 |
| *District of Columbia.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Washington | Coast | .10 | .04 | | | T. | .04 | .01 | | | .38 | | T. | | | | | T. | | | T. | | T. | | | | | | | | | | 0.57 |
| *Virginia.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Culpeper | Rappahannock | .06 | .18 | | | | | | | | .36 | | | | | | | | | | | | | | | | | | | | | | 0.60 |
| Dale Enterprise | Shenandoah | .20 | .05 | | | .03 | | T. | | | .60 | | T. | | | | | | | | .12 | .07 | | .01 | | | | | | | | | 1.08 |
| Doswell | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eastville | do | .58 | | | | | T. | | | | .30 | .31 | .64 | 1.30 | | | | | | | | | | | | | | | | | | | 3.13 |
| Fredericksburg | Rappahannock | .40 | T. | | | T. | | | | | .17 | .20 | T. | | | | | | | | | .05 | | | | | | | | | | | 0.82 |
| Lincoln | Potomac | .20 | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | | | 0.50 |
| Mount Weather | do | .13 | .03 | | | .02 | T. | | | | .22 | T. | | T. | T. | | T. | T. | | | .03 | | T. | | | | | | | | | | 0.43 |
| Nokesville | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quantico | do | .22 | .40 | | | | | | | | .38 | | .10 | .40 | | | | | | | | | | | | | | | | | | | 1.50 |
| Shenandoah | Shenandoah | .07 | .06 | | | | | | | | .26 | .03 | | | | | | | | | | .05 | | | | | | | | | | | 0.49 |
| Staunton | do | .03 | .03 | | | .15 | | T. | | | .40 | | T. | | | | | | | | .09 | .05 | T. | | | | | | | | | | 0.75 |
| Stephens City | Potomac | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Warsaw | Rappahannock | 2.70 | .20 | T. | .07 | | | T. | | | | .20 | | .25 | | | | | | | | | | | | | | | | | | | 3.42 |
| Woodstock | Shenandoah | | | | | | | | | | .15 | .03 | | | T. | | | | | | .03 | .02 | .04 | | | | | | | | | | 0.29 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 1, North Atlantic States.*

| Date. | Maine. | | | | | | | | | | | | Concord, N. H. | | Massachusetts. | | | | | | Providence, R. I. | | Connecticut. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Eastport. | | Greenville. | | Orono. | | Portland. | | Presque Isle. | | Rumford Falls. | | | | Amherst. | | Boston. | | Middleboro. | | Nantucket. | | | | Cream Hill. | | Hartford. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 37 | 29 | 36 | 25 | 45 | 29 | 40 | 32 | 35 | 25 | 37 | 31 | 41 | 32 | 40 | 33 | 42 | 36 | 40 | 38 | 48 | 37 | 46 | 35 | 46 | 32 | 48 | 35 |
| 2... | 34 | 31 | 32 | 24 | 35 | 27 | 35 | 31 | 32 | 20 | 37 | 31 | 40 | 28 | 38 | 28 | 40 | 35 | 38 | 33 | 39 | 36 | 41 | 33 | 36 | 31 | 49 | 34 |
| 3... | 44 | 31 | 39 | 21 | 43 | 28 | 48 | 28 | 39 | 23 | 42 | 25 | 47 | 29 | 46 | 25 | 51 | 34 | 50 | 24 | 48 | 31 | 51 | 32 | 42 | 27 | 46 | 31 |
| 4... | 39 | 29 | 32 | 18 | 44 | 25 | 42 | 31 | 35 | 9 | 40 | 27 | 45 | 28 | 47 | 28 | 48 | 34 | 48 | 23 | 44 | 30 | 49 | 31 | 44 | 26 | 49 | 32 |
| 5... | 42 | 37 | 37 | 19 | 45 | 22 | 42 | 26 | 36 | 1 | 39 | 20 | 54 | 21 | 53 | 24 | 57 | 35 | 52 | 19 | 48 | 30 | 52 | 33 | 49 | 32 | 56 | 30 |
| 6... | 41 | 33 | 46 | 21 | 50 | 24 | 42 | 29 | 37 | 4 | 44 | 21 | 50 | 25 | 54 | 28 | 44 | 39 | 54 | 28 | 53 | 37 | 56 | 36 | 47 | 38 | 56 | 34 |
| 7... | 44 | 32 | 34 | 26 | 46 | 28 | 43 | 36 | 28 | 18 | 40 | 34 | 45 | 32 | 47 | 30 | 53 | 36 | 51 | 43 | 48 | 38 | 52 | 34 | 38 | 32 | 49 | 34 |
| 8... | 38 | 31 | 32 | 20 | 42 | 30 | 38 | 29 | 36 | 26 | 34 | 26 | 35 | 28 | 38 | 26 | 42 | 32 | 43 | 28 | 40 | 32 | 40 | 31 | 40 | 26 | 39 | 30 |
| 9... | 37 | 27 | 31 | 16 | 39 | 26 | 41 | 26 | 36 | 9 | 36 | 22 | 41 | 26 | 43 | 27 | 47 | 32 | 49 | 19 | 42 | 32 | 43 | 29 | 47 | 24 | 44 | 28 |
| 10... | 31 | 20 | 26 | 4 | 38 | 15 | 32 | 21 | 32 | 11 | 31 | 15 | 36 | 19 | 40 | 20 | 37 | 25 | 42 | 22 | 34 | 29 | 40 | 24 | 38 | 16 | 38 | 24 |
| 11... | 32 | 22 | 34 | − 6 | 38 | 7 | 33 | 21 | 32 | 7 | 32 | 6 | 40 | 15 | 44 | 17 | 39 | 26 | 40 | 17 | 38 | 31 | 44 | 23 | 40 | 18 | 45 | 23 |
| 12... | 37 | 27 | 37 | 10 | 45 | 18 | 36 | 26 | 38 | 0 | 38 | 15 | 40 | 21 | 44 | 24 | 37 | 31 | 39 | 20 | 36 | 32 | 41 | 29 | 40 | 23 | 46 | 27 |
| 13... | 37 | 32 | 47 | 13 | 45 | 26 | 41 | 30 | 45 | 12 | 45 | 20 | 49 | 27 | 56 | 27 | 42 | 31 | 52 | 31 | 39 | 35 | 50 | 30 | 45 | 21 | 54 | 31 |
| 14... | 41 | 32 | 37 | 26 | 38 | 31 | 41 | 30 | 35 | 32 | 39 | 28 | 37 | 27 | 36 | 23 | 39 | 28 | 44 | 34 | 41 | 30 | 38 | 25 | 39 | 20 | 39 | 26 |
| 15... | 36 | 30 | 28 | 21 | 44 | 21 | 41 | 28 | 35 | 28 | 36 | 20 | 40 | 26 | 40 | 20 | 44 | 25 | 40 | 20 | 37 | 28 | 43 | 22 | 36 | 17 | 39 | 24 |
| 16... | 38 | 31 | 36 | 5 | 45 | 20 | 40 | 23 | 36 | 12 | 41 | 12 | 43 | 19 | 47 | 18 | 50 | 26 | 49 | 21 | 43 | 31 | 49 | 24 | 44 | 15 | 48 | 22 |
| 17... | 32 | 20 | 30 | 5 | 45 | 18 | 32 | 16 | 25 | 9 | 40 | 10 | 31 | 16 | 38 | 20 | 38 | 22 | 46 | 25 | 39 | 26 | 36 | 22 | 36 | 20 | 38 | 23 |
| 18... | 26 | 9 | 23 | −11 | 31 | 4 | 30 | 11 | 24 | −13 | 30 | 3 | 35 | 11 | 41 | 12 | 40 | 17 | 39 | 5 | 33 | 24 | 40 | 16 | 40 | 12 | 43 | 18 |
| 19... | 37 | 22 | 38 | 0 | 41 | 9 | 41 | 21 | 36 | 7 | 42 | 6 | 51 | 16 | 52 | 27 | 49 | 30 | 45 | 21 | 40 | 27 | 45 | 29 | 42 | 16 | 51 | 30 |
| 20... | 47 | 34 | 47 | 28 | 54 | 34 | 59 | 35 | 43 | 33 | 51 | 27 | 56 | 34 | 60 | 36 | 63 | 40 | 57 | 35 | 51 | 38 | 62 | 36 | 43 | 24 | 62 | 38 |
| 21... | 37 | 24 | 39 | 16 | 51 | 23 | 44 | 31 | 34 | 13 | 42 | 25 | 49 | 31 | 53 | 30 | 48 | 37 | 50 | 32 | 43 | 32 | 51 | 35 | 57 | 28 | 53 | 35 |
| 22... | 40 | 33 | 43 | 27 | 44 | 29 | 53 | 34 | 38 | 25 | 50 | 29 | 57 | 31 | 59 | 32 | 59 | 35 | 46 | 32 | 48 | 32 | 56 | 33 | 52 | 24 | 55 | 33 |
| 23... | 39 | 30 | 42 | 21 | 47 | 27 | 45 | 33 | 38 | 18 | 46 | 30 | 53 | 31 | 62 | 34 | 49 | 37 | 47 | 35 | 45 | 32 | 57 | 36 | 60 | 32 | 61 | 39 |
| 24... | 42 | 32 | 51 | 24 | 49 | 26 | 49 | 32 | 48 | 19 | 56 | 26 | 64 | 27 | 58 | 31 | 60 | 36 | 54 | 22 | 48 | 32 | 54 | 31 | 66 | 30 | 53 | 35 |
| 25... | 55 | 36 | 63 | 37 | 73 | 37 | 74 | 46 | 46 | 30 | 66 | 33 | 73 | 43 | 76 | 44 | 78 | 51 | 67 | 44 | 51 | 41 | 79 | 48 | 75 | 33 | 78 | 45 |
| 26... | 40 | 33 | 43 | 32 | 72 | 35 | 49 | 40 | 40 | 29 | 43 | 40 | 45 | 40 | 53 | 36 | 54 | 43 | 67 | 38 | 56 | 40 | 54 | 40 | 47 | 32 | 54 | 40 |
| 27... | 38 | 31 | 40 | 26 | 46 | 29 | 48 | 36 | 45 | 22 | 49 | 30 | 55 | 34 | 62 | 37 | 47 | 39 | 51 | 27 | 46 | 34 | 58 | 35 | 58 | 34 | 58 | 40 |
| 28... | 38 | 31 | 40 | 23 | 44 | 22 | 43 | 35 | 36 | 10 | 47 | 30 | 60 | 32 | 57 | 35 | 54 | 37 | 50 | 27 | 46 | 32 | 50 | 37 | 54 | 33 | 52 | 38 |
| 29... | 57 | 38 | 54 | 32 | 66 | 37 | 71 | 39 | 47 | 32 | 65 | 31 | 73 | 35 | 78 | 36 | 76 | 48 | 77 | 43 | 68 | 40 | 77 | 48 | 74 | 40 | 78 | 46 |
| 30... | 53 | 36 | 49 | 32 | 65 | 33 | 55 | 43 | 50 | 29 | 60 | 30 | 65 | 39 | 75 | 43 | 66 | 45 | 74 | 40 | 62 | 42 | 72 | 46 | 76 | 47 | 78 | 51 |
| 31... | 38 | 33 | 44 | 30 | 56 | 34 | 43 | 38 | 43 | 29 | 43 | 38 | 46 | 39 | 58 | 42 | 47 | 41 | 53 | 37 | 45 | 40 | 49 | 39 | 59 | 40 | 57 | 42 |
| Mns | 39.6 | 29.2 | 39.0 | 18.9 | 47.3 | 25.0 | 44.2 | 30.2 | 37.7 | 17.1 | 43.3 | 23.9 | 48.3 | 27.8 | 51.5 | 28.8 | 49.7 | 34.3 | 50.1 | 28.5 | 45.1 | 33.3 | 50.8 | 32.3 | 48.7 | 27.2 | 51.8 | 32.8 |

| Date. | New Haven, Conn. | | New York. | | | | | | | | | | | | Pennsylvania. | | | | | | | | | | | | Asbury Park, N. J. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Addison. | | Albany. | | Binghamton. | | Cooperstown. | | Indian Lake. | | New York. | | Clearfield. | | Everett. | | Harrisburg. | | Philadelphia. | | Scranton. | | Wellsboro. | | | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 48 | 35 | 49 | 33 | 41 | 35 | 46 | 35 | 38 | 34 | 46 | 32 | 49 | 40 | 40 | 34 | 54 | 38 | 52 | 42 | 61 | 42 | 51 | 43 | 45 | 33 | 50 | 40 |
| 2... | 40 | 35 | 54 | 34 | 43 | 35 | 47 | 29 | 42 | 30 | 42 | 33 | 42 | 38 | 54 | 33 | 58 | 38 | 54 | 39 | 47 | 40 | 54 | 39 | 51 | 32 | 50 | 35 |
| 3... | 48 | 30 | 49 | 26 | 45 | 27 | 46 | 24 | 42 | 28 | 38 | 22 | 47 | 30 | 51 | 27 | 52 | 29 | 55 | 36 | 53 | 35 | 47 | 31 | 48 | 26 | 40 | 30 |
| 4... | 50 | 31 | 54 | 22 | 47 | 31 | 47 | 27 | 40 | 22 | 43 | 7 | 49 | 36 | 58 | 18 | 58 | 23 | 56 | 35 | 56 | 42 | 47 | 31 | 52 | 20 | 47 | 31 |
| 5... | 54 | 30 | 63 | 26 | 52 | 29 | 58 | 27 | 52 | 25 | 55 | 19 | 54 | 38 | 64 | 25 | 63 | 28 | 59 | 30 | 56 | 39 | 58 | 30 | 58 | 26 | 44 | 34 |
| 6... | 54 | 34 | 66 | 26 | 52 | 30 | 61 | 28 | 45 | 28 | 57 | 14 | 54 | 39 | 69 | 28 | 72 | 29 | 60 | 38 | 62 | 40 | 65 | 34 | 63 | 26 | 48 | 35 |
| 7... | 48 | 35 | 53 | 26 | 49 | 31 | 54 | 27 | 45 | 26 | 50 | 28 | 48 | 35 | 61 | 19 | 42 | 30 | 55 | 35 | 55 | 38 | 55 | 30 | 59 | 28 | 52 | 41 |
| 8... | 40 | 31 | 41 | 25 | 37 | 30 | 38 | 27 | 32 | 23 | 30 | 20 | 41 | 33 | 40 | 25 | 42 | 30 | 44 | 33 | 48 | 34 | 40 | 28 | 39 | 23 | 45 | 30 |
| 9... | 46 | 30 | 39 | 23 | 41 | 28 | 36 | 25 | 32 | 23 | 29 | 17 | 46 | 33 | 43 | 23 | 43 | 22 | 47 | 33 | 51 | 37 | 39 | 28 | 40 | 27 | 41 | 33 |
| 10... | 36 | 26 | 43 | 18 | 34 | 22 | 40 | 21 | 32 | 15 | 35 | − 5 | 37 | 30 | 43 | 19 | 40 | 26 | 34 | 28 | 38 | 30 | 39 | 22 | 43 | 22 | 40 | 34 |
| 11... | 43 | 25 | 47 | 17 | 43 | 20 | 44 | 21 | 38 | 14 | 38 | −10 | 44 | 30 | 49 | 11 | 36 | 27 | 39 | 26 | 46 | 32 | 47 | 23 | 46 | 17 | 48 | 26 |
| 12... | 49 | 30 | 47 | 23 | 46 | 30 | 44 | 30 | 40 | 22 | 43 | 4 | 46 | 35 | 42 | 16 | 44 | 31 | 46 | 30 | 44 | 34 | 45 | 26 | 46 | 25 | 38 | 34 |
| 13... | 47 | 32 | 48 | 22 | 49 | 25 | 51 | 23 | 46 | 20 | 46 | 6 | 51 | 34 | 45 | 20 | 61 | 21 | 61 | 31 | 56 | 35 | 53 | 27 | 48 | 21 | 43 | 32 |
| 14... | 41 | 26 | 38 | 19 | 40 | 24 | 34 | 17 | 36 | 18 | 35 | 15 | 41 | 28 | 38 | 25 | 31 | 26 | 40 | 28 | 45 | 33 | 37 | 22 | 40 | 20 | 40 | 24 |
| 15... | 40 | 22 | 39 | 18 | 33 | 22 | 33 | 16 | 35 | 14 | 31 | 11 | 39 | 25 | 38 | 22 | 32 | 21 | 40 | 24 | 42 | 27 | 33 | 20 | 38 | 17 | 44 | 23 |
| 16... | 49 | 23 | 48 | 25 | 45 | 20 | 45 | 24 | 38 | 15 | 33 | 7 | 50 | 29 | 47 | 23 | 48 | 25 | 52 | 28 | 53 | 31 | 49 | 24 | 49 | 25 | 51 | 24 |
| 17... | 38 | 23 | 40 | 23 | 34 | 18 | 30 | 19 | 27 | 14 | 30 | 5 | 43 | 28 | 45 | 30 | 46 | 31 | 44 | 32 | 44 | 32 | 31 | 21 | 39 | 17 | 51 | 30 |
| 18... | 41 | 19 | 53 | 14 | 40 | 14 | 44 | 16 | 34 | 9 | 37 | −13 | 44 | 24 | 59 | 11 | 57 | 19 | 51 | 25 | 48 | 27 | 49 | 18 | 53 | 9 | 36 | 22 |
| 19... | 47 | 33 | 67 | 24 | 55 | 26 | 61 | 30 | 54 | 22 | 48 | 3 | 50 | 36 | 70 | 22 | 65 | 26 | 61 | 34 | 60 | 35 | 61 | 35 | 62 | 27 | 43 | 35 |
| 20... | 60 | 35 | 56 | 45 | 54 | 38 | 58 | 35 | 52 | 36 | 47 | 33 | 62 | 42 | 61 | 32 | 65 | 29 | 65 | 42 | 63 | 42 | 63 | 39 | 57 | 39 | 64 | 40 |
| 21... | 31 | 36 | 58 | 23 | 50 | 32 | 53 | 27 | 43 | 25 | 48 | 20 | 52 | 40 | 62 | 21 | 59 | 30 | 55 | 38 | 56 | 38 | 55 | 32 | 57 | 24 | 57 | 37 |
| 22... | 54 | 34 | 64 | 33 | 55 | 37 | 62 | 42 | 52 | 34 | 50 | 35 | 59 | 35 | 65 | 26 | 66 | 27 | 64 | 38 | 64 | 35 | 61 | 38 | 65 | 29 | 48 | 30 |
| 23... | 57 | 38 | 62 | 30 | 54 | 35 | 61 | 36 | 46 | 30 | 55 | 21 | 61 | 44 | 75 | 31 | 76 | 33 | 70 | 45 | 66 | 44 | 65 | 42 | 64 | 34 | 53 | 41 |
| 24... | 47 | 34 | 84 | 31 | 63 | 35 | 77 | 42 | 70 | 31 | 61 | 24 | 55 | 40 | 83 | 33 | 80 | 35 | 66 | 39 | 63 | 40 | 77 | 42 | 81 | 32 | 44 | 38 |
| 25... | 80 | 38 | 75 | 44 | 74 | 44 | 71 | 42 | 62 | 40 | 60 | 43 | 77 | 52 | 78 | 35 | 76 | 41 | 80 | 51 | 82 | 52 | 76 | 47 | 75 | 38 | 81 | 40 |
| 26... | 60 | 40 | 65 | 32 | 51 | 40 | 50 | 34 | 43 | 32 | 45 | 32 | 63 | 45 | 70 | 35 | 73 | 39 | 70 | 54 | 71 | 51 | 58 | 39 | 61 | 31 | 79 | 46 |
| 27... | 55 | 38 | 68 | 25 | 54 | 37 | 60 | 27 | 45 | 25 | 56 | 25 | 57 | 40 | 74 | 28 | 71 | 31 | 62 | 41 | 61 | 44 | 62 | 31 | 66 | 25 | 66 | 37 |
| 28... | 50 | 39 | 82 | 48 | 61 | 41 | 74 | 47 | 65 | 40 | 65 | 29 | 54 | 43 | 81 | 35 | 81 | 45 | 63 | 42 | 63 | 41 | 66 | 44 | 79 | 46 | 48 | 41 |
| 29... | 81 | 45 | 84 | 34 | 76 | 46 | 79 | 39 | 73 | 42 | 67 | 40 | 78 | 50 | 78 | 31 | 84 | 42 | 80 | 49 | 80 | 54 | 79 | 43 | 80 | 32 | 70 | 43 |
| 30... | 73 | 49 | 82 | 43 | 74 | 48 | 76 | 48 | 69 | 45 | 66 | 31 | 78 | 49 | 66 | 27 | 83 | 40 | 83 | 59 | 83 | 52 | 83 | 51 | 81 | 45 | 75 | 52 |
| 31... | 51 | 41 | 70 | 48 | 61 | 50 | 65 | 45 | 66 | 46 | 60 | 39 | 53 | 45 | 60 | 26 | 81 | 38 | 64 | 48 | 54 | 48 | 67 | 49 | 68 | 48 | 59 | 43 |
| Mns | 50.9 | 32.8 | 57.7 | 28.4 | 50.1 | 31.7 | 53.1 | 30.0 | 45.9 | 26.7 | 46.6 | 18.9 | 52.4 | 37.0 | 58.4 | 25.5 | 59.4 | 30.6 | 57.2 | 37.4 | 57.1 | 38.8 | 55.2 | 33.2 | 56.5 | 27.9 | 51.5 | 34.9 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 1*—Continued.

| Date. | New Jersey. | | | | | | | | Martinsburg, W. Va. | | Maryland. | | | | | | | | Washington, D. C. | | Milleboro, Del. | | Virginia. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Atlantic City. | | Hightstown. | | Newton. | | Phillipsburg. | | | | Baltimore. | | Darlington. | | Frederick. | | Westernport. | | | | | | Culpeper. | | Fredericksburg. | | Staunton. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 50 | 38 | 56 | 42 | 46 | 35 | 44 | 38 | 58 | 45 | 62 | 53 | 59 | 48 | 61 | 46 | 61 | 42 | 63 | 57 | 60 | 57 | 60 | 54 | 63 | 57 | 60 | 51 |
| 2... | 44 | 37 | 43 | 36 | 48 | 33 | 49 | 32 | 61 | 42 | 53 | 44 | 56 | 41 | 64 | 43 | 61 | 38 | 59 | 48 | 57 | 41 | 61 | 53 | 62 | 56 | 69 | 50 |
| 3... | 39 | 33 | 50 | 27 | 47 | 27 | 49 | 28 | 60 | 35 | 60 | 38 | 53 | 41 | 64 | 36 | 60 | 32 | 56 | 44 | 64 | 37 | 64 | 40 | 66 | 44 | 69 | 37 |
| 4... | 46 | 32 | 53 | 28 | 53 | 27 | 54 | 31 | 58 | 30 | 55 | 38 | 58 | 32 | 60 | 31 | 59 | 28 | 60 | 34 | 58 | 36 | 58 | 35 | 61 | 41 | 63 | 32 |
| 5... | 49 | 35 | 57 | 27 | 53 | 25 | 54 | 28 | 64 | 31 | 55 | 38 | 56 | 31 | 63 | 35 | 65 | 32 | 62 | 35 | 61 | 28 | 63 | 39 | 66 | 34 | 69 | 42 |
| 6... | 50 | 41 | 63 | 31 | 61 | 28 | 59 | 31 | 69 | 38 | 60 | 42 | 63 | 31 | 69 | 38 | 73 | 35 | 69 | 40 | 71 | 41 | 69 | 39 | 74 | 39 | 72 | 45 |
| 7... | 51 | 36 | 53 | 41 | 50 | 34 | 49 | 32 | 50 | 39 | 58 | 41 | 56 | 39 | 57 | 39 | 65 | 35 | 58 | 41 | 59 | 39 | 63 | 46 | 67 | 47 | 60 | 39 |
| 8... | 50 | 32 | 43 | 28 | 41 | 28 | 42 | 31 | 53 | 35 | 52 | 37 | 49 | 29 | 51 | 34 | 53 | 34 | 55 | 38 | 56 | 27 | 57 | 35 | 62 | 28 | 58 | 35 |
| 9... | 47 | 38 | 51 | 29 | 49 | 28 | 47 | 30 | 50 | 30 | 52 | 38 | 51 | 30 | 51 | 31 | 49 | 27 | 51 | 35 | 57 | 30 | 55 | 34 | 60 | 30 | 56 | 34 |
| 10.. | 38 | 30 | 42 | 27 | 35 | 18 | 35 | 24 | 36 | 32 | 41 | 29 | 44 | 28 | 38 | 29 | 39 | 20 | 41 | 30 | 41 | 31 | 47 | 28 | 50 | 30 | 34 | 32 |
| 11... | 40 | 29 | 47 | 21 | 46 | 17 | 46 | 23 | 37 | 29 | 43 | 30 | 43 | 25 | 38 | 29 | 39 | 30 | 39 | 29 | 41 | 28 | 38 | 27 | 37 | 29 | 36 | 24 |
| 12... | 38 | 35 | 44 | 25 | 49 | 24 | 47 | 28 | 47 | 30 | 42 | 33 | 42 | 30 | 43 | 33 | 45 | 32 | 40 | 34 | 37 | 34 | 45 | 33 | 40 | 34 | 44 | 25 |
| 13... | 47 | 32 | 58 | 25 | 54 | 22 | 59 | 27 | 67 | 26 | 63 | 34 | 55 | 28 | 66 | 27 | 62 | 25 | 66 | 32 | 59 | 31 | 63 | 25 | 69 | 29 | 63 | 26 |
| 14... | 45 | 32 | 52 | 32 | 47 | 25 | 39 | 28 | 39 | 28 | 45 | 34 | 52 | 33 | 45 | 32 | 35 | 25 | 44 | 32 | 52 | 34 | 58 | 33 | 64 | 34 | 40 | 32 |
| 15... | 40 | 28 | 40 | 23 | 39 | 18 | 38 | 23 | 41 | 25 | 42 | 28 | 39 | 23 | 41 | 26 | 34 | 22 | 41 | 26 | 44 | 30 | 42 | 24 | 48 | 27 | 45 | 22 |
| 16... | 51 | 26 | 53 | 20 | 52 | 17 | 51 | 25 | 53 | 25 | 53 | 31 | 50 | 25 | 54 | 26 | 52 | 28 | 53 | 27 | 53 | 23 | 52 | 20 | 57 | 20 | 57 | 23 |
| 17... | 45 | 33 | 43 | 30 | 43 | 26 | 40 | 25 | 51 | 32 | 51 | 36 | 45 | 25 | 52 | 34 | 48 | 32 | 52 | 36 | 47 | 35 | 52 | 36 | 55 | 35 | 60 | 42 |
| 18... | 40 | 27 | 48 | 19 | 46 | 15 | 48 | 20 | 59 | 25 | 50 | 32 | 50 | 23 | 58 | 27 | 60 | 25 | 55 | 31 | 50 | 26 | 50 | 25 | 61 | 26 | 64 | 27 |
| 19... | 46 | 38 | 61 | 28 | 59 | 28 | 60 | 30 | 68 | 29 | 58 | 39 | 59 | 32 | 67 | 30 | 66 | 28 | 66 | 33 | 62 | 36 | 68 | 31 | 71 | 28 | 67 | 34 |
| 20... | 54 | 42 | 67 | 38 | 63 | 37 | 66 | 38 | 71 | 32 | 69 | 43 | 65 | 40 | 69 | 40 | 68 | 32 | 70 | 44 | 69 | 38 | 72 | 43 | 72 | 41 | 69 | 41 |
| 21... | 53 | 38 | 61 | 34 | 55 | 28 | 58 | 34 | 60 | 39 | 56 | 42 | 57 | 36 | 59 | 32 | 60 | 33 | 59 | 42 | 54 | 32 | 59 | 41 | 69 | 45 | 61 | 40 |
| 22... | 47 | 38 | 63 | 26 | 50 | 30 | 59 | 31 | 72 | 33 | 68 | 37 | 64 | 31 | 74 | 34 | 68 | 30 | 72 | 38 | 68 | 25 | 76 | 36 | 75 | 32 | 74 | 40 |
| 23... | 55 | 42 | 63 | 41 | 66 | 38 | 67 | 41 | 79 | 36 | 72 | 46 | 73 | 41 | 79 | 44 | 78 | 35 | 79 | 48 | 75 | 44 | 80 | 41 | 81 | 46 | 80 | 46 |
| 24... | 53 | 42 | 64 | 36 | 63 | 30 | 65 | 35 | 76 | 42 | 56 | 43 | 61 | 39 | 72 | 42 | 87 | 38 | 72 | 43 | 78 | 39 | 78 | 42 | 83 | 44 | 82 | 46 |
| 25... | 61 | 47 | 83 | 47 | 79 | 47 | 80 | 41 | 83 | 44 | 83 | 52 | 83 | 50 | 82 | 52 | 86 | 41 | 83 | 59 | 78 | 53 | 82 | 57 | 86 | 59 | 82 | 50 |
| 26... | 67 | 45 | 72 | 41 | 71 | 35 | 68 | 44 | 75 | 33 | 72 | 55 | 74 | 49 | 75 | 47 | 78 | 37 | 75 | 51 | 72 | 41 | 73 | 53 | 75 | 40 | 74 | 42 |
| 27... | 48 | 41 | 64 | 30 | 66 | 27 | 65 | 32 | 70 | 41 | 60 | 46 | 66 | 38 | 68 | 40 | 73 | 33 | 65 | 46 | 57 | 38 | 68 | 40 | 70 | 42 | 74 | 40 |
| 28... | 54 | 43 | 67 | 35 | 59 | 35 | 62 | 38 | 75 | 45 | 62 | 44 | 61 | 38 | 72 | 43 | 85 | 41 | 73 | 45 | 75 | 42 | 81 | 50 | 84 | 39 | 85 | 44 |
| 29... | 72 | 50 | 82 | 41 | 84 | 44 | 80 | 42 | 81 | 44 | 77 | 53 | 80 | 47 | 83 | 47 | 86 | 45 | 82 | 51 | 80 | 49 | 81 | 51 | 81 | 52 | 82 | 56 |
| 30... | 68 | 47 | 84 | 50 | 81 | 50 | 85 | 50 | 84 | 46 | 83 | 62 | 85 | 57 | 86 | 57 | 83 | 51 | 86 | 56 | 83 | 52 | 88 | 49 | 92 | 52 | 86 | 45 |
| 31... | 48 | 45 | 74 | 45 | 72 | 43 | 54 | 46 | 74 | 52 | 66 | 51 | 75 | 48 | 71 | 52 | 79 | 50 | 69 | 56 | 64 | 49 | 79 | 53 | 81 | 55 | 82 | 56 |
| Mns | 49.5 | 37.2 | 58.1 | 32.4 | 55.7 | 29.6 | 55.5 | 32.5 | 62.0 | 35.9 | 58.7 | 40.9 | 58.8 | 35.7 | 62.3 | 37.3 | 63.1 | 33.4 | 61.8 | 40.5 | 60.7 | 37.0 | 64.3 | 39.1 | 67.2 | 39.2 | 65.1 | 38.9 |

# Climatological Data for March, 1910.

## DISTRICT No. 2, SOUTH ATLANTIC AND EAST GULF STATES.

CHARLES F. VON HERRMANN, District Editor.

### GENERAL SUMMARY.

Throughout the district the month of March, 1910, presented several features of unusual interest. It was a very dry month with a high percentage of sunshine, and, except in Florida, where there was a moderate deficiency in temperature, the month was remarkably warm. For continued high temperatures the month surpassed all previous records at many places. With the exception of a brief period of cooler weather from about the 11th to the 16th the temperature was continuously above the normal, the daily departures reaching nearly 20° on a few days during the first and third decades. Summer-like conditions prevailed everywhere toward the close of the month, with maximum temperatures above 90° in all States in the district. The State averages ranged from 4° to 7° above the normal, except in Florida, where the deficiency was about 1°.

The average number of days with rain was only 4. As a rule less than half of the normal amount of precipitation was received, and at some places after the rainy period of the 10th to 13th the longest spring drought on record in 30 years prevailed. Several severe hailstorms and local heavy rains occurred, mainly in Florida.

The brief periods of rain during the month were associated with very slight barometric depressions in the Southern States on the 1st to 2d and 11th to 13th, the atmospheric pressure on other dates being generally above normal. The rains of the 1st–2d accompanied a moderate disturbance that was central in southern Alabama on February 28 and which was immediately followed by a similar slight depression that moved from the region west of the lower Mississippi River to the eastern portion of North Carolina on the 2d. A moderate area of low pressure off the southeast coast of Florida caused a local heavy downpour of rain at Jupiter, Fla., on the 5th. A storm appeared over southwestern Texas on the 9th which moved slowly eastward to southern Georgia by the 11th, thence to eastern North Carolina and northward with increasing force to New England on the 13th. This disturbance brought the most general rains for the month and after the 13th showers were mostly light and poorly distributed. The lowest atmospheric pressure in the district occurred in Alabama and Mississippi on the 8th or 9th, and in other portions of the district on the 13th, with the minimum 29.60 inches at Lynchburg, Va.

During the greater portion of the month the meteorological conditions were dominated by successive areas of high atmospheric pressure, which, however, did not preclude the occurrence of several severe local storms, such for example, as the severe hailstorm of the 22d which extended across Florida from Merritts Island, Brevard County, to Richland, Dade County. The extensive area of high pressure that was central over the Mississippi Valley on the 15th brought with it the only period of cool weather with temperatures below freezing experienced during the month. The barometer rose much higher on the 18th and 19th from Virginia to New England and the maximum pressure for the district was 30.47 inches on the 19th at Richmond and Norfolk, Va. The pressure was decidedly above normal during the last 4 days of the month over the southern part of the district accompanied this time by clear skies and very high temperatures.

Conditions were unusually favorable during March for outdoor work and farming operations advanced rapidly with thorough preparation of the soil. Vegetation responded to the increased warmth and sunshine, and peaches came into bloom early in the month in the southern portion of the district. The heavy frost of the 15th and 16th seem not to have injured the fruit crop materially although the temperature fell below freezing as far south as southern Georgia. Considerable damage resulted to truck crops in the southern portions of the Gulf States.

Red sunsets were frequent during the month; the increased amount of smoke and dust in the atmosphere caused the sun to assume the appearance of a sharply defined dark red globe some time before sunset on many days.

### TEMPERATURE.

In all the east Gulf and South Atlantic States, except Florida, the temperature during March was decidedly above the normal, the excess ranging from less than 1° in southeastern Georgia near the Florida boundary line to over 8° in northern Alabama, northern Georgia, and western Virginia. The maximum average excess of nearly 7° occurred in that portion of Virginia lying within the boundary of District No. 2 and it is worthy of note that the departures increased steadily toward the northwestern portion of the United States to more than 20° above normal in North and South Dakota. At some places the month was the warmest on record, generally however, the months of March, 1903, 1907, and 1908 were somewhat warmer than the current month. It is rather remarkable that only the extreme southern portion of the United States, the Peninsula of Florida should have been exempt from excessive warmth until the toward close of the month. While the temperature departures in Florida were not marked the State average shows a deficiency of nearly 1°, the greatest deficiencies occurring in the southern half of the State.

Warm weather began before the close of February and the temperature over nearly the entire district was continuously above normal during the first decade, the daily excess reaching 20° on the 5th in the southern portion of the district. A brief period of much cooler weather followed, lasting from the 11th to the 16th, inclusive, during which temperatures below freezing occurred in all States in the district. In the northern portion March 15 was the coldest day of the month, the minimum temperature fell as low as 18° in western Virginia and western North Carolina; farther south the lowest temperature occurred on the 16th and ranged from 19° at Valley Head, Ala., to 25° at Johnstown, Fla. The killing frosts of the 15th and 16th proved destructive to early vegetation, especially truck crops, in the southern portions of Mississippi and Alabama and in the northern portions of Florida.

The temperature rose rapidly on March 17 and remained continuously above normal to the close of the month, the last 4 days especially being extremely warm, with maximum temperatures exceeding 90° in all portions of the district. The highest temperature registered was 95° on March 27 at Bainbridge, Ga.; 94° occurred on the same day at Milligan, Fla.; and the maximum recorded at Mobile, Ala., 91°, was the highest March temperature experienced since the establishment of the station in 1870. On March 30 and 31 the highest temperatures in North Carolina, South Carolina, and Virginia ranged from 91° to 93° at numerous stations. These records, however, do not surpass the high temperatures that occurred in March, 1907.

The monthly mean temperatures at individual stations ranged from 48° in Virginia to over 70° in Florida. The highest monthly means were 71.3° at Key West and 70.3° at Miami, Fla.; the lowest was 47°8. at Hot Springs, Va. Over most of the district the monthly means ranged from 54° to 65°, but in North Carolina and Virginia they were generally between 50° and 58°.

### PRECIPITATION.

March is usually a month of frequent storms, high winds, and abundant precipitation, but the current month presented diametrically opposite features. The number of days with rain was very small; only two or three distinct storm areas influenced the weather during the month and the rainfall was decidedly below the normal throughout the entire district. The greatest average deficiency, over 4 inches, occurred in Mississippi and Alabama; the deficiencies progressively diminished toward the northeast and southeast to less than 2 inches in Virginia and to slightly over 1 inch in Florida. At many stations in Alabama, especially in the Black Warrior and Tombigbee watersheds, the month was the driest March on record. In Georgia the rainfall was the smallest for March since 1892; and it was the ninth consecutive month with precipitation below the normal. In North Carolina also the month was drier than any previous recorded March, the average rainfall for the State being one-third of an inch less than the previous lowest record in March, 1894.

The rainfall for the month was distributed with considerable uniformity, the monthly totals ranging from 1 inch to 3 inches over the larger portion of the district. Of the total number of stations reporting precipitation, namely 347, 32 per cent received less than 1 inch, 57 per cent from 1 inch to 3 inches and only 11 per cent over 3 inches. The regions of maximum precipitation are found on the east coast of Florida, in the vicinity of Jupiter, in northern Florida, and the adjoining parts of Georgia, in the vicinity of Calhoun Falls, S. C., and in eastern Virginia. The largest amounts in these respective areas were: Jupiter, Fla., 6.45 inches; Douglas, Ga., 4.83 inches; Calhoun Falls, S. C., 5.22 inches; and Williamsburg, Va., 4.62 inches. Twenty-nine stations mostly located in South Carolina, Alabama, and Mississippi received less than half an inch. The smallest amount in the district was 0.18 inch at Demopolis and Greensboro, Ala., and at Booneville, Miss. A local heavy 24-hour fall of 4.97 inches occurred at Jupiter on the 4th and 5th, and several places in South Carolina and Georgia received over 2.50 inches in 24 hours on February 28–March 1.

The most general rains occurred on the 1st and 2d, with scattered showers in several States to the 6th, and on the 10th to 13th. Later in the month light, irregularly distributed rains occurred from the 18th to the 25th, with local heavy showers in portions of South Carolina on the 22d. In Virginia the rains of the 10th to 11th were followed by colder weather, with sleet and snow on the 12th, which covered the ground to a depth of from 2 to 6 inches. At some stations this was the heaviest snowfall for the winter. The snowstorm extended only as far south as the northern border of North Carolina (Saxon and Reidsville). The largest amounts of unmelted snow were: Norfolk, 5.0 inches; Richmond, 4.0; and Spottsville, 2.0. The number of days with rain during March ranged from 3 in Alabama and Mississippi to 5 in Virginia and North Carolina, as compared with normals of from 8 to 10 rainy days. After the middle of the month a long period of drought began, many places not receiving appreciable rain for more than 20 days. At Atlanta, for instance, no rain fell from March 12 to April 5 a period of 24 days, the longest spring drought since the establishment of the station in 1879. Toward the close of the month the drought to some extent prevented the germination of seeds and the growth of vegetation.

Thunderstorms were of moderate frequency, especially on the 2d, 10th, 11th, 21st, and 22d, with hail at several places. In Florida there seems to have been more hail this month than ever before in March. On the 22d a series of severe hailstorms occurred over the following counties in central Florida: Hernando, Pasco, Polk, Orange, and Brevard, approximately on a line extending directly from east to west. Many windows were broken and truck crops suffered severely in these counties. Hail remained in ditches and low places in the vicinity of Dade City for several days subsequent to its occurrence. The following is a brief description of the hailstorm at Merritts Island, Fla., by Mr. Fitz Ulrich, cooperative observer of the Weather Bureau:

> Tuesday, March 22, 1910, opened clear with moderate northwest winds and a temperature of 56°. The atmospheric pressure was 30.15 inches and it remained practically stationary during the day. At noon the temperature had risen to 70°, the wind was light from the north and thunderclouds appeared in the west. The clouds soon began to tower upward in large masses, the wind shifted to fresh northeast, lightning was seen, and occasional peals of thunder were heard. The south rim of the clouds changed from a dark color to soft gray, fell toward the earth, and were carried back beneath the dark upper cloud as flying scud. At 4 p. m. a thundering noise was heard like a heavily loaded railroad train, and the first large hailstones began to fall on the river causing the water to splash high into the air. The size of the hailstones was about 1 by ¾ inch, and there was at first perhaps 4 to 6 to the square yard, but the number soon increased. Wild ducks on the river at the beginning of the storm flew up, but quickly darted down again to the water and sought shelter under its surface. Smaller hailstones began to mix with the larger ones and the ground soon became white with hail. The wind was light from the west during the storm, but shifted back to northeast accompanied by a fresh shower of rain at 4.30 p. m., when the storm was practically over. As there was no high wind no windows were broken, but the leaves of banana and orange trees and cabbage plants were badly cut by the hail.

### RIVER CONDITIONS.

The general and heavy rains at the end of February caused high stages in most of the rivers in the district at the beginning of March, but the water receded quickly and after the middle of the month all rivers experienced a steady and marked decline to the lowest stages at the close of the month. In consequence of local heavy rains at and below Clarksville, Va., the lower Roanoke River rose quite rapidly at Weldon, N. C., to a stage of 34.6 feet, or 4.6 feet above the flood stage; no damage resulted. Warnings for flood stages on the Congaree and Wateree rivers in South Carolina were issued by the official at Columbia on March 1, and were justified by a rise of the Wateree at Camden to 27.0 feet (flood stage 24 feet) and of the Congaree at Columbia to 13.8 feet. The Santee River also rose above flood stages along its entire course. Owing to timely warnings no loss of property occurred. The Pedee and Waccamaw rivers were also at flood stages early in March, the Pedee reaching 28.1 feet at Cheraw on March 3 and the Waccamaw maintaining flood stages at Conway from March 8 to 14, inclusive. The rivers of Georgia and Alabama were near or slightly above flood stages at a few points, but the waters declined rapidly after the 5th of the month. The marked deficiency of precipitation during the last half of the month caused correspondingly low river stages and in some cases brought the mean for the month and the lowest stages much below the normal. At Cheraw the mean stage for March, 1910, was 7.6 feet while the normal stage for 18 years is 9.3 feet. At Demopolis and Tuscaloosa, on the Black Warrior River in Alabama, the lowest stages since 1893 occurred, with the exception of slightly lower stages in 1898 and 1904. At Montgomery, Ala., the lowest stage in the Tallapoosa River was 3.1 feet which is the lowest during the past 20 years, except the stage of 1.0 foot in 1898. Owing to the absence of the usual spring freshets lumbermen were unable to float timber and consequently suffered considerable loss.

### MISCELLANEOUS PHENOMENA.

The prevailing winds for the month were southwest in Virginia, North Carolina, and South Carolina, west in Georgia, north in Alabama, and northeast in Florida. The wind movement was unusually small and there was an almost complete absence of high winds; Hatteras, N. C., was the only point reporting a gale, namely 44 miles from the northwest on March 13. In Mississippi the wind movement was the lightest in 25 years, in Georgia since 1898. The average hourly wind movement just exceeded 10 miles at Hatteras, Savannah, Jupiter, Key West, and Atlanta. The percentage of sunshine was very

high in all portions of the district. The number of clear days averaged about 20 and the number of cloudy days but 5. The number of days with dense fog was small.

### AVERAGE STREAM FLOW OF THE CHATTAHOOCHEE AND FLINT RIVERS IN GEORGIA.

The determination of the value of any water power requires the skill of a competent hydraulic engineer. Certain factors of the problem may be determined once for all at any time, such as the available fall of the stream, the location with reference to a railway station or commercial center, and the cost of development; but other equally important data can be ascertained by investigations extending over many years. These factors are: the quantity of the water flowing in the stream at all seasons of the year, and the average rainfall over the catchment basin, knowledge of which is necessary in discussing the run-off.

The stage of a river is its height above a fixed zero at a certain selected point; the average of the monthly mean stages for a number of years may be considered to give the normal flow which, to a certain extent, must correspond to the normal rainfall, since a river is the product of the rainfall over its watershed. The mean minimum flow which represents the stage due almost solely to seepage is important to enginers since it marks the lower limit of obtainable power, beyond which some auxiliary power must be employed. On the other hand very high stages or floods may injure and cause a closing down of the plant. This paper includes a brief discussion of the régime of the Chattahoochee and Flint rivers in relation to the normal rainfall.

Four special river stations have been maintained by the United States Weather Bureau on the Chattahoochee River for a number of years, namely Oakdale (P. O. Chattahoochee, about 9 miles west of Atlanta), West Point, Ga., where the river begins to form the boundary line between Georgia and Alabama, Eufaula, Ala., and Alaga, Ala. The mean river stages for these 4 stations are given below together with additional data with regard to length of record, flood stages, etc. The average rainfall for the catchment basin has been determined from 11 well-distributed stations having precipitation records of from 10 to 44 years. In making comparison with current rainfall the average over the watershed should be always computed from the same stations.

*Mean stages of the Chattahoochee River.*

OAKDALE, GA.[1]

This station is 268 miles from the mouth of the river, and 94 miles above West Point, Ga. Length of record, 10 years. Flood stage, 21 feet.

| Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.5 | 8.9 | 9.9 | 8.2 | 7.7 | 7.5 | 7.0 | 7.1 | 6.2 | 5.6 | 5.4 | 7.2 |

WEST POINT, GA.

This station is 94 miles below Oakdale and 33 miles above Columbus, Ga. Length of record, 11 years. Flood stage, 20 feet.

| Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.4 | 6.0 | 6.3 | 5.0 | 4.1 | 3.9 | 3.6 | 3.7 | 2.9 | 2.6 | 2.8 | 4.3 |

EUFAULA, ALA.

This station is 51 miles below Columbus, and 60 miles above Alaga, Ala. Length of record, 17 years. No records from May to September, inclusive, 1896 to 1904. Flood stage, 40 feet.

| Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.3 | 11.7 | 11.9 | 8.2 | 6.3 | 4.4 | 4.3 | 5.4 | 3.4 | 2.3 | 2.5 | 6.1 |

ALAGA, ALA.

This station is 30 miles from the junction of the Chattahoochee and Flint rivers, and 112 miles from the Gulf. Length of record, 5 years. Flood stage, 30 feet.

| Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.2 | 13.2 | 13.3 | 9.7 | 9.1 | 6.4 | 7.2 | 6.6 | 4.8 | 4.1 | 3.9 | 7.8 |

[1] The zero of gage was lowered 3.4 feet January 1, 1909, and all stages have been reduced to this level.

*Normal precipitation over the Chattahoochee Basin.*[2]

| Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.44 | 5.87 | 5.42 | 4.14 | 3.52 | 4.39 | 5.29 | 5.46 | 3.55 | 2.64 | 2.99 | 5.06 | 52.77 |

In the region under discussion the heaviest rains occur in winter or in the early spring and in midsummer; the former period of maximum rainfall is due to the more southerly paths of atmospheric disturbances which then often pass directly across the Gulf and South Atlantic States, while the latter is due to the greater frequency of thunderstorms at that season. The greatest average rainfall for the river basin is found in February, 5.87 inches; March also has a high average of 5.42 inches. In summer both July and August show an average rainfall exceeding 5 inches. In general the mean river stages show a close correlation with these figures. The highest mean stages at all stations occur in February and March, and in every case the March stage is slightly higher than in February; in other words, the rivers show a slight lag in reflecting the heavier rainfall of February. The mean river stages show only a very moderate rise from July to August despite the heavier rainfall for both months, giving striking evidence of the powerful influence of high temperatures and the cultivated conditions of the soil, etc., in preventing the rapid run-off of the rainfall in summer. In the lower course of the Chattahoochee, however, the maximum summer rise occurs in July instead of August.

Two periods of minimum precipitation are also found, one in late spring or early summer, culminating in May, and the most marked in October and November, which are the driest months of the year. The rainfall in October is less than half of what it is in February. The period of lowest river stages corresponds in autumn with the period of least rainfall, that is in October or November; such is not the case, however, in spring. The abundant supply of water from the early spring rains has not all been disposed of until July when the rivers reach the lowest condition prior to the slight summer rise.

Flood stages are not very frequent in the rivers. Often for periods of several years the flood stages are not reached at all, as for example, from 1904 to 1906, inclusive. The following table gives the maximum and minimum stages for the Chattahoochee River:

| Stations. | Maximum stage. | | Minimum stage. | |
|---|---|---|---|---|
| | Height. | Date. | Height. | Date. |
| | *Feet.* | | *Feet.* | |
| Oakdale, Ga | 31.4 | Dec. 30, 1901 | 2.8 | June 26, 1904 |
| West Point, Ga | 25.6 | In 1886 | 0.8 | Sept. 1896 |
| Eufaula, Ala | 56.0 | Mar. 28, 1888 | − 1.0 | Sept. 24, 1905 |
| Alaga, Ala | 38.2 | Apr. 30, 1908 | − 0.1 | Oct. 9, 1905 |

At West Point, since 1899 the river has reached the flood stage of 20 feet only twice, namely 25.0 feet on December 30, 1901, and 20 feet on March 1, 1902; the river reached 19.1 feet on March 13, 1901. At Eufaula, Ala., the flood stage, 40 feet, has been exceeded in 8 out of 15 years; the highest water, 56 feet, occurred on March 2, 1902, and 53 feet occurred February 15, 1900.

*Mean stages of the Flint River.*

WOODBURY, GA. (P. O. Thunder.)

The station is 227 miles from the mouth of the river, and 75 miles above Monteruma. Length of record, 10 years. Flood stage, 10 feet.

| Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.6 | 2.7 | 2.5 | 1.6 | 1.2 | 0.9 | 0.9 | 1.3 | 0.5 | 0.2 | 0.7 | 1.5 |

[2] Computed for the Chattahoochee River Basin from the normal rainfall at Atlanta, Carrollton, Columbus, Dahlonega, Eufaula, Fort Gaines, Lost Mountain, Lumpkin, Opelika, and West Point.

MONTEZUMA, GA.

This station is located 53 miles above Albany, Ga. Length of record, 6 years. Flood stage, 20 feet.

| Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.3 | 8.0 | 7.8 | 6.7 | 5.8 | 4.4 | 4.8 | 5.1 | 3.3 | 2.9 | 3.2 | 5.6 |

ALBANY, GA.

This station is 99 miles from the mouth of the Flint River and 77 miles above Bainbridge. Length of record, 17 years. Flood stage, 20 feet.

| Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.8 | 9.8 | 9.4 | 7.2 | 4.4 | 3.0 | 3.0 | 4.2 | 3.3 | 3.1 | 2.0 | 4.5 |

BAINBRIDGE, GA.

This station is 22 miles from the junction of the Flint and Chattahoochee rivers. Length of record, 9 years. Flood stage, 22 feet.

| Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.0 | 10.6 | 11.3 | 8.4 | 7.1 | 4.9 | 5.2 | 6.1 | 4.3 | 3.6 | 3.2 | 5.4 |

*Normal precipitation over the Flint River Basin.*[3]

| Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.75 | 5.92 | 5.01 | 3.77 | 3.34 | 4.16 | 5.37 | 5.88 | 3.29 | 2.49 | 2.59 | 4.49 | 50.06 |

The normal precipitation for the Flint River watershed has been determined from the records of 14 stations, the observations covering periods of from 8 to 26 years. The distribution of rainfall by months is entirely similar to that over the Chattahoochee basin; the amounts in February, July, and August are somewhat greater, and the May and October minima are slightly more pronounced.

The highest waters in the Flint River occur at Woodbury, Montezuma, and Albany in February, and at Bainbridge in March. There is then a gradual decline to June or July, and a moderate rise in August corresponding to the maximum summer rainfall. The minimum stages again occur in October or November. The following are the highest waters recorded on the Flint River:

| Stations. | Maximum stage. | | Minimum stage. | |
|---|---|---|---|---|
| | Height. | Date. | Height. | Date. |
| | *Feet.* | | *Feet.* | |
| Woodbury | 14.0 | Feb. 28, 1902 | −0.5 | Oct. 24, 1904 |
| Montezuma | 26.0 | Mar. 2, 1887 | 0.3 | Oct. 31, 1907 |
| Albany | 32.4 | Mar. 25, 1897 | −0.9 | Oct. 9, 1895 |
| Bainbridge | 34.6 | Mar. 26, 1897 | −0.3 | June 23, 1894 |

DRAINAGE NOTES.

Much swamp land, at present quite useless, exists in eastern Georgia, some of which has been tested by the soil survey corps of the Department of Agriculture and pronounced to be similar to the truck land around Norfolk, Va., and well adapted to the growth of early vegetables. It is estimated that there are over 100,000 acres of land along the line of the Savannah and Statesboro Railroad which could be made arable by drainage. Plans to drain 8,000 acres of this land and convert it into truck farms have been prepared by Mr. D. N. Bacot, Superintendent of the Savannah and Statesboro Railroad. The plan is to dig a canal 2¾ miles long, beginning at Arcola, Bulloch County, and emptying into Iric Branch. The ditcher is 71 feet long, can dig a ditch 36 feet wide and 15 feet deep and has a capacity of removing 400 cubic yards of earth per day.

[3]Computed for the Flint Basin from the normal rainfall at Albany, Americus, Bainbridge, Blakely, Butler, Cordele, Experiment, Griffin, Marshalville, Morgan, Putnam, Talbotton, Woodbury.

HYDROELECTRIC DEVELOPMENT.

The development of the power of Town Creek, a stream on Sand Mountain about 30 miles from Gadsden, Ala., has been begun by the Alabama Railway and Power Company of Gadsden. The project will develop about 15,000 horsepower.

The Alabama Power Company, of Montgomery, Ala., has camped its corps of men on the Coosa River 50 miles from Montgomery, to construct the big Dam No. 12 which is expected to develop about 42,000 horsepower. Five other dams will be built, giving Alabama an abundant supply of electric driving power.

The Columbus Power Company, of Columbus, Ga., will extend its sphere of operations by the construction of a dam across the Chattahooche River at Goat Rock, a few miles from Columbus. The power will be carried by transmission lines to adjacent cities, especially Opelika and Lanett, Ala., important centers of manufacturing industries, and ultimately to West Point, Ga.

Congress has appropriated $100,000 to help open up St. Andrews Bay, in Florida. This is a great harbor of over 100 square miles lying on the Gulf coast west of the Apalachicola River. A like sum of $100,000 has been appropriated for the construction of a canal to connect the Chattahoochee River and St. Andrews Bay. It is expected that this harbor will be extensively used by traffic to and from the Panama Canal.

WATERPOWER DEVELOPMENT ON CATAWBA AND BROAD RIVERS.

About 13,000,000 spindles in cotton mills, using approximately 400,000 horsepower, are now in operation south of the Mason and Dixon line. Less than one-half of all this power is furnished by water power, while about 2,000,000 horsepower is still undeveloped in the very heart of the cotton field, and in a climate where ice can not affect materially this development.

Within the last few years hydroelectric development companies have wonderfully broadened their scope of activities from the supplying of power to a few mills in the immediate neighborhood of the power plant to the construction of long transmission lines for operation in far distant places, so that the prophecy is being made by engineers that within the next 10 years net works of systems will extend over hundreds of square miles and rival in amount of power transmitted any of the great northern or western systems.

In recognition of the force of these truths, the Southern Power Company was organized in 1905 with an initial capital of $10,000,000, taking over the Catawba Power Company, with a 10,000 horsepower plant near Rock Hill, S. C., and furnishing power and light to 6 towns and cities, including Charlotte. This company conceived the plan of developing a sufficient number of water powers to furnish power to a section of country 200 miles in length and 250 miles in breadth in the heart of what is known as the Piedmont region, the richest and most fertile of the Carolinas. This section is dotted with cotton mills throughout its extent and over 200,000 horsepower is used, having been previously generated entirely by steam.

In addition to the Catawba station, 8 undeveloped water powers on the Catawba River were taken over by the Southern Power Company and highly important sites on the Broad River were soon secured. These have been constantly and rapidly developed and the work is still in progress on a large scale. With present construction of power plants and lines power is now being furnished to over 40 towns and 130 or more cotton mills, aggregating about 100,000 horsepower; and present plans contemplate the extension of the lines so as to cover the entire country, from Columbia, S. C., on the south, to Taylorsville, N. C., on the north, and from Anderson, S. C., on the west to Raleigh, N. C., on the east. The company now has in opera-

tion about 900 miles of single circuit and 150 miles of secondary circuits, the lines being strung on wooden poles and steel towers. About 240 miles consists of 50,000 volt single-circuit, 120 miles of 50,000 double-circuit line, and 260 miles of 100,000 volt double-circuit tower line, on part of which only a single circuit has been strung. Power is supplied to these circuits from 4 generating stations, as follows: Catawba station, which was completed in the spring of 1904; Great Falls, S. C., station, completed in the spring of 1907; Rocky Creek station, completed in the spring of 1909 (all on the Catawba River); and Ninety Nine Island station (S. C.), on the Broad River, completed in the early part of 1910.—*Wm. V. Martin, Observer.*

TABLE 1.—*Climatological data for March, 1910. District No. 2, South Atlantic and east Gulf States.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Sky. | | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | Number of rainy days, .01 inch or more. | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Virginia.* | | | | | | | | | | | | | | | | | | | | |
| Arvonia | Buckingham | 350 | 6 | 53.8 | + 6.7 | 85 | 30 | 23 | 16 | 35 | 0.57 | − 3.59 | 0.20 | 2.0 | 6 | 20 | 7 | 4 | n. | Rev. Plummer F. Jones |
| Ashland‖ | Hanover | ?21 | 19 | | | | | | | | | | | | | | | | | R. L. C. Scott. |
| Buchanan | Botetourt | ?20 | 6 | | | | | | | | 0.80 | | 0.36 | T. | 6 | 7 | 16 | 8 | | D. D. Boose. |
| Callaville | Brunswick | 250 | 16 | 54.8 | + 4.8 | 88 | 31 | 24 | 15 | 38 | 2.63 | − 2.42 | 1.60 | | 4 | 22 | 4 | 5 | n. | F. M. Gage. |
| Cape Henry | Princess Anne | 20 | 36 | 52.4 | + 5.8 | 90 | 30 | 32 | 12 | 34 | 2.14 | − 2.18 | 0.91 | 0.0 | 5 | 17 | 4 | 10 | sw. | U. S. Weather Bureau. |
| Catawba | Roanoke | 1,760 | | | | | | | | | | | | | | | | | | State Sanitarium. |
| Charlottsville | Albemarle | 800 | 21 | 55.8 | + 9.5 | 91 | 30 | 26 | 15 | 41 | 0.56 | − 2.70 | 0.25 | 2.0 | 5 | 16 | 7 | 8 | s. | Leander McCormick. |
| Clarksville | Mecklenburg | | 16 | | | | | | | | 3.10 | − 0.58 | 0.60 | 2.0 | 5 | | | | | J. Henry Ligon. |
| Columbia‖ | Fluvanna | 246 | 12 | 53.5 | | 90 | 30 | 20 | 16 | 45 | 1.23 | | 0.62 | 0.0 | 6 | 22 | 4 | 5 | ne. | Chesapeake & Ohio R. R. |
| Danville | Pittaylvania | 413 | 10 | | | | | | | | 1.54 | | 0.25 | 1.4 | 5 | | | | | C. G. Watkins. |
| Diamond Springs | Princess Anne | 20 | | 54.0 | | 91 | 30 | 30 | 18 | 41 | 3.98 | | 1.54 | 1.5 | 6 | 22 | 2 | 7 | | Virginia Experiment Sta. |
| Hampton | Elizabeth City | 5 | 27 | 54.0 | + 6.8 | 88 | 30 | 29 | 16 | 31 | 3.38 | − 0.60 | 0.90 | T. | 6 | 22 | 3 | 6 | se. | Hampton Institute. |
| Hot Springs | Bath | 2,195 | 18 | 47.8 | + 5.2 | 80 | 28 | 18 | 15 | 39 | 1.37 | − 2.48 | 0.52 | 1.0 | 6 | 21 | 4 | 6 | | James P. Scott. |
| Ivor | Southampton | 87 | 1 | 53.8 | | 90 | 30 | 21 | 16 | 49 | 3.15 | | 0.71 | | 7 | | | | | N. & W. Ry., Exp. Farm. |
| Lassiter | Goochland | 100 | | | | | | | | | 2.00 | | | T. | 4 | 24 | 3 | 4 | | T. J. Davis. |
| Lexington‖ | Rockbridge | 1,060 | 33 | 49.4 | + 5.3 | 85 | 30 | 19 | 16 | 46 | 0.58 | − 2.81 | 0.04 | 1.4 | 7 | 25 | 1 | 5 | | Virginia Military Institute. |
| Lynchburg | Campbell | 685 | 39 | 55.0 | + 8.5 | 88 | 28 | 28 | 13 | 43 | 0.36 | − 3.19 | 0.19 | 1.2 | 3 | 15 | 12 | 4 | nw. | U. S. Weather Bureau. |
| New Castle | Craig | 1,300 | 1 | | | | | | | | 1.16 | | 1.07 | | 2 | | | | | Miss J. L. Martin. |
| Newport News‖ | Warwick | 55 | 7 | 53.8 | | 84 | 30 | 29 | 15† | 30 | 3.85 | | 1.20 | 2.2 | 7 | 21 | 4 | 6 | sw. | Ernest W. Sniffen. |
| Norfolk | Norfolk | 91 | 40 | 55.0 | + 6.8 | 90 | 30 | 32 | 12 | 31 | 3.43 | − 0.82 | 1.15 | 6.0 | 7 | 20 | 4 | 7 | s. | U. S. Weather Bureau. |
| Petersburg | Dinwiddie | 60 | 23 | 57.8[d] | +10.3 | 90[d] | 30 | 25[d] | 10 | 38[d] | 3.11 | − 1.46 | | T. | 5 | | | | w. | Central State Hospital. |
| Randolph | Charlotte | 334 | 6 | | | | | | | | 1.26 | | 0.28 | 0.8 | 5 | | | | | W. B. Spencer. |
| Richmond | Henrico | 144 | 31 | 53.9 | + 7.0 | 91 | 30 | 24 | 16 | 40 | 1.42 | − 2.64 | 0.65 | 5.9 | 6 | 14 | 12 | 5 | s. | U. S. Weather Bureau. |
| Rocky Mount | Franklin | 1,150 | 16 | 53.7 | | 89 | 30 | 22 | 16 | 46 | 1.22 | − 3.14 | 0.59 | | 4 | | | | sw. | G. W. B. Hale. |
| Saxe | Charlotte | 350 | 7 | 54.1 | | 89 | 29† | 18 | 15 | 42 | 2.80 | | 1.24 | | 5 | | | | s. | State Experiment Farm. |
| Spottsville (near) | Surry | 15 | 22 | 54.2 | + 6.2 | 90 | 30 | 22 | 16 | 39 | 3.31 | − 1.31 | 1.00 | 2.2 | 5 | 22 | 2 | 7 | sw. | B. W. Jones. |
| Williamsburg | James City | 70 | 19 | 54.4 | + 5.7 | 89 | 30 | 24 | 16 | 38 | 4.62 | + 0.44 | 1.90 | 3.2 | 7 | 22 | 1 | 8 | sw. | Eastern State Hospital. |
| *North Carolina.* | | | | | | | | | | | | | | | | | | | | |
| Beaufort | Carteret | 10 | 8 | 58.6 | | 76 | 26 | 34 | 16 | 24 | 3.01 | | 1.77 | T. | 5 | 21 | 4 | 6 | sw. | H. D. Aller. |
| Belhaven | Beaufort | 4 | 1 | 56.9 | | 91 | 30 | 26 | 16 | 40 | 1.66 | | 1.11 | 0.0 | 4 | 23 | 2 | 6 | s. | W. S. Hopkins. |
| Brewers | Wilkes | 1,950 | 13 | | | | | | | | | | | | | | | | | W. L. Brewer. |
| Caroleen | Rutherford | 806 | 10 | 55.4 | + 3.0 | 87 | 31 | 21 | 16 | 41 | 1.12 | − 3.68 | 0.59 | 0.0 | 5 | 17 | 5 | 9 | s. | S. B. Tanner. |
| Chalybeate Springs | Harnett | 500 | 4 | 56.2 | | 90 | 30 | 22 | 16 | 44 | 0.84 | | 0.29 | 0.0 | 4 | 25 | 3 | 3 | sw. | J. A. Smith. |
| Chapel Hill | Orange | 500 | 52 | 58.0 | + 8.8 | 89 | 30 | 24 | 15 | 36 | 1.64 | − 2.87 | 0.69 | 0.0 | 6 | 22 | 6 | 3 | sw. | Prof. A. H. Patterson. |
| Charlotte | Mecklenburg | 773 | 34 | 57.8 | + 7.0 | 84 | 31 | 28 | 15 | 28 | 0.86 | − 3.71 | 0.53 | 0.0 | 5 | 20 | 5 | 6 | s. | U. S. Weather Bureau. |
| Chimney Rock | Rutherford | 1,150 | | | | | | | | | | | | | | | | | | Dr. L. B. Morse. |
| Clinton | Sampson | 156 | 3 | 58.6 | | 91 | 31 | 27 | 16 | 38 | 0.77 | | 0.32 | 0.0 | 5 | 19 | 10 | 2 | w. | W. T. Boyette. |
| Durham (near) | Durham | 406 | 1 | | | | | | | | 1.80 | | 0.55 | 0 0 | 6 | | | | | Supt. Durham Water Co. |
| Eagletown | Northampton | 66 | 5 | 56.2 | | 89 | 30 | 25 | 16 | 41 | 2.15 | | 0.61 | T. | 6 | 22 | 5 | 4 | sw. | J. T. Elliott. |
| Edenton | Chowan | 30 | 16 | 56.4 | + 4.6 | 88 | 30 | 27 | 16 | 43 | 3.01 | − 1.23 | 0.72 | T. | 6 | 21 | 5 | 5 | s. | E. R. Conger. |
| Fayetteville | Cumberland | 170 | 23 | 59.4 | + 5.0 | 90 | 30† | 29 | 15† | 37 | 1.20 | − 3.80 | 0.34 | 0.0 | 5 | | | | | Frank Glover. |
| Goldsboro | Wayne | 102 | 40 | 59.0 | + 6.7 | 90 | 30† | 25 | 12 | 40 | 3.35 | − 1.11 | 1.50 | 0.0 | 6 | | | | sw. | Mrs. N. B. Taylor. |
| Graham | Alamance | 656 | 8 | | | | | | | | 2.50 | | 0.85 | 0.0 | 6 | | | | | Dr. W. R. Goley. |
| Greensboro | Guilford | 843 | 29 | 57.4 | + 7.1 | 91 | 30 | 24 | 16 | 39 | 2.50 | − 1.90 | 1.04 | 0.0 | 5 | | | | | A. R. Horry. |
| Greenville | Pitt | 75 | 17 | | | | | | | | 1.63 | − 2.99 | 0.50 | 0.0 | 5 | | | | | C. V. York. |
| Hatteras | Dare | 11 | 36 | 57.2 | + 5.8 | 81 | 30 | 34 | 15 | 24 | 2.16 | − 3.31 | 0.93 | T. | 7 | 21 | 2 | 8 | sw. | U. S. Weather Bureau. |
| Henderson | Vance | 490 | 17 | 56.1 | + 5.5 | 89 | 30 | 25 | 15 | 38 | 1.79 | − 2.91 | 0.61 | 0.0 | 6 | 17 | 8 | 6 | sw. | Enoch Powell. |
| Kinston | Lenoir | 46 | 12 | | | 93 | 31 | | | | | | | | | | | | | D. T. Edwards. |
| Lenoir | Caldwell | 1,186 | 37 | 53.6 | + 7.2 | 86 | 29† | 20 | 16 | 45 | 1.32 | − 3.04 | 0.36 | 0.0 | 6 | 26 | 2 | 3 | s. | G. M. Goforth. |
| Lexington | Davidson | 810 | 9 | 55.6 | | 86 | 31 | 21 | 16 | 39 | 2.78 | | 1.05 | 0.0 | 6 | 21 | 7 | 3 | s. | H. R. Berrier. |
| Lincolnton | Lincoln | 994 | 5 | 55.5 | | 88 | 31 | 24 | 15 | 40 | 0.95 | | 0.70 | 0.0 | 6 | 19 | 0 | 12 | s. | L. B. Thompson. |
| Louisburg | Franklin | 375 | 19 | 55.8 | + 5.0 | 88 | 30 | 25 | 16 | 37 | 2.30 | − 1.63 | 0.65 | T. | 5 | 20 | 7 | 4 | s. | T. B. Wilder. |
| Lumberton | Robeson | 102 | 27 | 58.8 | + 4.6 | 90 | 31 | 27 | 16 | 38 | 1.84 | − 2.04 | 1.02 | 0.0 | 5 | | | | ne. | B. M. Davis. |
| Manteo | Dare | 12 | 5 | 54.0 | | 88 | 30 | 33 | 16 | 30 | 1.96 | | 1.02 | 0.0 | 5 | 24 | 1 | 6 | s. | U. S. Weather Bureau. |
| Marion | McDowell | 1,425 | 18 | 55.0[a] | + 4.7 | 89[a] | 30† | 20[a] | 16 | 48[a] | 1.49 | − 3.84 | 0.51 | 0.0 | 6 | | | | ne. | Sgt. Thomas McGuire. |
| Moncure | Chatham | 145 | 16 | 55.7[a] | + 5.1 | 89[a] | 30† | 22[a] | 16 | 45[a] | 1.84 | − 2.35 | 0.68 | 0.0 | 5 | 23 | 5 | 3 | sw. | B. J. Utley. |
| Monroe | Union | 586 | 16 | 56.2 | + 3.9 | 86 | 30† | 21 | 16 | 38 | 1.36 | − 2.79 | 0.45 | 0.0 | 5 | 21 | 7 | 3 | sw. | T. A. Ashcraft. |
| Morganton | Burke | 1,135 | 23 | 56.0 | + 6.2 | 87 | 29 | 26 | 16 | 40 | 1.20 | − 3.11 | 0.68 | 0.0 | 2 | 24 | 3 | 4 | se. | H. D. Judd. |
| Mt. Airy | Surry | 1,048 | 22 | 53.8 | + 7.4 | 86 | 25† | 27 | 9† | 43 | 1.01 | − 3.01 | 0.73 | 0.0 | 5 | 24 | 1 | 6 | se. | Prof. A. H. Merritt. |
| Mt. Holly | Gaston | 616 | 13 | | | | | | | | 2.24 | − 2.04 | 1.36 | 0.0 | 5 | | | | | J. W. Holland. |
| Nashville | Nash | 190 | 6 | 56.3 | | 90 | 30 | 23 | 16 | 41 | 1.26 | | 0.75 | 0.0 | 5 | 11 | 12 | 8 | s. | J. B. Boddie. |
| Newbern | Craven | 12 | 28 | 57.8 | + 3.9 | 87 | 31 | 27 | 16 | 39 | 2.19 | − 1.87 | 0.50 | T. | 7 | | | | sw. | J. B. Hill. |
| Pinehurst‖ | Moore | 650 | 6 | 58.2 | | 89 | 31 | 26 | 18 | 44 | 0.93 | | 0.50 | 0.0 | 2 | 22 | 2 | 7 | w. | General Office. |
| Pittsboro | Chatham | 480 | 19 | 55.6 | + 6.8 | 89 | 30 | 22 | 16 | 42 | | | | | | 25 | 0 | 6 | | B. M. Poe. |
| Raleigh | Wake | 390 | 39 | 57.6 | + 7.2 | 88 | 31 | 29 | 15 | 33 | 1.01 | − 3.25 | 0.58 | 0.0 | 6 | 17 | 9 | 5 | sw. | U. S. Weather Bureau. |
| Ramseur | Randolph | 442 | 3 | 55.9 | | 90 | 30† | 24 | 15 | 46 | 2.04 | | 0.98 | 0.0 | 3 | 20 | 8 | 3 | s. | P. P. Turner. |
| Randleman | do | 810 | 5 | | | | | | | | 2.51 | | 1.30 | T. | 7 | | | | | J. R. Walton. |
| Reidsville | Rockingham | 828 | 11 | 57.2 | + 7.6 | 88 | 31 | 25 | 15† | 37 | 1.84 | − 1.45 | 0.79 | 1.5 | 6 | 23 | 1 | 7 | sw. | E. M. Redd. |
| Rockhouse | Macon | 3,100 | 18 | 54.6 | + 7.2 | 76 | 25† | 18 | 15 | 29 | 1.37 | − 6.05 | 0.63 | 0.0 | 5 | 19 | 8 | 4 | nw. | Berry C. Hawkins. |
| Rockingham | Richmond | 210 | 15 | 59.2[a] | + 4.2 | 91[a] | 31 | 31[a] | 13 | 40[a] | 1.08 | − 2.51 | 0.50 | 0.0 | 3 | | | | | H. S. Ledbetter. |
| Roxboro | Person | 600 | 12 | | | | | | | | | | | | | | | | | T. C. Bradsher. |
| Salem | Forsythe | 1,000 | 15 | 54.8 | + 5.0 | 87 | 30 | 22 | 16 | 37 | 1.51 | − 3.12 | 0.58 | 0.0 | 5 | | | | | Rev. H. E. Rondthaler. |
| Salisbury | Rowan | 760 | 26 | 58.4 | + 7.3 | 88 | 30 | 24 | 15 | 41 | 2.61 | − 1.95 | 1.30 | 0.0 | 5 | 17 | 8 | 6 | n. | Miss Thelma Wilkinson. |
| Saxon | Stokes | 900 | 18 | 54.2 | + 4.7 | 86 | 30† | 19 | 15 | 40 | 0.95 | − 2.70 | 0.45 | 1.0 | 3 | 19 | 7 | 5 | sw. | R. P. McAnnaly. |
| Scotland Neck | Halifax | 80 | 6 | 55.6[a] | | 87[a] | 30 | 24[a] | 16 | 41[a] | 1.98 | | 0.53 | 0.0 | 6 | 14 | 11 | 6 | sw. | J. Y. Savage. |
| Selma | Johnston | 225 | 20 | 57.3[b] | + 5.9 | 90[b] | 30 | 24[b] | 15 | 38[b] | 2.52 | − 2.00 | 0.60 | 0.0 | 5 | | | | | Dr. R. J. Noble. |
| Settle | Iredell | 700 | 14 | 54.6 | + 4.0 | 88 | 31 | 20 | 16 | 40 | 1.42 | − 3.07 | 0.60 | 0.0 | 4 | 18 | 5 | 8 | sw. | C. H. Smith. |
| Sloan | Duplin | 50 | 17 | 57.5[a] | + 2.7 | 90[a] | 31 | 26[a] | 16 | 40[a] | 0.86 | − 3.38 | 0.46 | 0.0 | 6 | 20 | 6 | 5 | s. | D. M. Sholar. |
| Snow Hill | Greene | 80 | 5 | 57.1 | | 91 | 31 | 24 | 16 | 44 | 1.49 | | 0.53 | 0.0 | 4 | 21 | 5 | 5 | s. | Levi J. H. Mewborn. |
| Southern Pines | Moore | 519 | 20 | 59.0[a] | + 4.6 | 86[a] | 29† | 27[a] | 16 | 34[a] | 1.03 | − 3.18 | 0.35 | 0.0 | 4 | 27 | 2 | 2 | sw. | Mrs. P. H. Beck. |
| Southport | Brunswick | 18 | 55 | 57.7 | + 3.8 | 82 | 7 | 29 | 16 | 27 | 2.07 | − 1.79 | 1.30 | 0.0 | 4 | 21 | 4 | 6 | sw. | Mrs. Charles E. Taylor. |
| Statesville | Iredell | 950 | 22 | 56.9 | + 8.6 | 87 | 29 | 24 | 16 | 38 | 1.69 | − 3.48 | 0.48 | 0.0 | 6 | 18 | 7 | 6 | sw. | D. M. Thompson. |
| Tarboro | Edgecombe | 50 | 25 | 57.5[b] | + 6.0 | 91[b] | 30 | 26[b] | 16 | 43[b] | 1.58 | − 2.21 | 0.43 | 0.0 | 6 | 23 | 3 | 5 | s. | E. V. Zoeller. |
| Troy | Montgomery | 800 | 1 | | | | | | | | | | | | | | | | | Mrs. O. B. Deaton. |
| Weldon | Halifax | 81 | 38 | 55.6 | + 7.1 | 91 | 30 | 25 | 16 | 42 | 1.66 | − 2.46 | 0.51 | 0.1 | 6 | | | | sw. | H. S. S. Cooper. |
| Whiteville | Columbus | 59 | 5 | 58.2 | | 88 | 31 | 27 | 16 | 41 | 0.77 | | 0.28 | 0.0 | 6 | 22 | 5 | 4 | sw. | Rev. C. C. Smith. |
| Willard | Pender | 51 | 2 | 57.6[a] | | 90[a] | 31 | 24[a] | 16 | 45[a] | 1.21 | | 0.63 | 0.0 | 5 | 22 | 5 | 4 | s. | J. H. Jeffries. |
| Wilmington | New Hanover | 52 | 39 | 58.4 | + 4.7 | 86 | 30 | 31 | 16 | 28 | 1.02 | − 2.52 | 0.78 | 0.0 | 4 | 18 | 8 | 5 | sw. | U. S. Weather Bureau. |
| Yanceyville | Caswell | 690 | .... | 57.4 | | 90 | 31 | 26 | 15 | 38 | 1.74 | | 0.90 | 0.0 | 3 | 22 | 0 | 9 | s. | A. Y. Kerr. |
| *South Carolina.* | | | | | | | | | | | | | | | | | | | | |
| Aiken | Aiken | 565 | 26 | 61.0 | + 5.3 | 87 | 29† | 29 | 15 | 33 | 0.38 | − 3.85 | 0.23 | 0.0 | 2 | 28 | 1 | 2 | w. | Dr. Huger T. Hall. |
| Allendale | Barnwell | 186 | 22 | 60.2 | + 2.5 | 86 | 31 | 31 | 16 | 34 | 1.25 | − 2.43 | 0.57 | 0.0 | 4 | 22 | 5 | 4 | | A. R. Hiers. |
| Anderson | Anderson | 764 | 9 | 58.4 | + 5.1 | 86 | 31 | 25 | 16 | 35 | 0.89 | − 4.11 | 0.40 | 0.0 | 4 | 18 | 6 | 7 | w. | H. H. Russell. |
| Batesburg | Lexington | 656 | 22 | 57.5 | + 1.9 | 85 | 26 | 27 | 15 | 39 | 0.70 | − 3.82 | 0.38 | 0.0 | 4 | 19 | 2 | 10 | se. | E. J. Hite. |
| Beaufort | Beaufort | 20 | 24 | | | | | | | | | | | | | | | | | Miss E. G. Rice. |
| Blackville | Barnwell | 296 | 22 | 60.3 | + 2.1 | 91 | 30 | 31 | 15 | 37 | 1.05 | − 2.48 | 0.56 | 0.0 | 3 | 15 | 10 | 6 | se. | Miss M. E. Lange. |
| Blairs | Fairfield | 293 | 9 | | | | | | | | 0.86 | | 0.30 | 0.0 | 4 | 19 | 5 | 7 | nw. | John R. Ragsdale. |

TABLE 1.—*Climatological data for March, 1910. District No. 2*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *South Carolina*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Bowman | Orangeburg | 160 | 5 | 59.4 | ..... | 89 | 31 | 25 | 16 | 39 | 1.39 | ..... | 0.88 | 0.0 | 3 | 26 | 3 | 2 | w. | B. O. Evans. |
| Calhoun Falls | Abbeville | 508 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5.22 | + 0.63 | 2.35 | 0.0 | 6 | 22 | 1 | 7 | sw. | P. J. Pfiefer. |
| Camden | Kershaw | 222 | 44 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.60 | − 1.94 | 0.46 | 0.0 | 5 | 27 | 0 | 4 | nw. | W. C. Brown. |
| Catawba | York | 562 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.60 | ..... | 1.60 | 0.0 | 5 | 17 | 10 | 4 | n. | Jas. C. Faris. |
| Chappells | Newberry | 402 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.36 | ..... | 0.28 | 0.0 | 2 | 19 | 3 | 4 | w. | W. R. Zimmerman. |
| Charleston | Charleston | 48 | 40 | 60.5 | + 3.3 | 82 | 31 | 35 | 15 | 25 | 0.63 | − 3.09 | 0.61 | 0.0 | 2 | 18 | 9 | 4 | sw. | U. S. Weather Bureau. |
| Cheraw | Chesterfield | 144 | 22 | 58.5 | + 4.6 | 89 | 31 | 25 | 16 | 37 | 1.23 | − 2.43 | 0.51 | 0.0 | 5 | 20 | 7 | 4 | s. | J. H. Powe. |
| Clemson College | Oconee | 850 | 19 | 56.4 | + 3.3 | 82 | 31 | 22 | 16 | 34 | 1.33 | − 3.47 | 0.51 | 0.0 | 4 | 24 | 5 | 2 | s. | Prof. John N. Hook. |
| Columbia | Richland | 351 | 23 | 59.8 | + 5.8 | 87 | 30 | 28 | 16 | 32 | 0.76 | − 2.31 | 0.33 | 0.0 | 4 | 17 | 9 | 5 | s. | U. S. Weather Bureau. |
| Conway | Horry | 25 | 18 | 60.8 | + 3.7 | 90 | 31 | 28 | 16 | 45 | 0.94 | − 2.75 | 0.56 | 0.0 | 3 | 20 | 0 | 11 | s. | P. C. Quattlebaum. |
| Darlington | Darlington | 175 | 15 | 59.2[a] | ..... | 90[a] | 31 | 26[a] | 16 | 38[a] | 1.48[a] | − 1.66 | 0.55[a] | 0.0[a] | 5[a] | 24[a] | 2[a] | 4[a] | ..... | D. C. McCall. |
| Dillon | Marion | 100 | 6 | 60.1 | + 4.3 | 91 | 31 | 26 | 16 | 42 | 1.01 | − 2.74 | 0.53 | 0.0 | 5 | ..... | ..... | ..... | ..... | A. E. Rowell. |
| Effingham | Florence | 106 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.93 | − 0.74 | 1.30 | 0.0 | 3 | 24 | 1 | 6 | n. | H. B. McCall. |
| Ferguson | Berkeley | 51 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.00 | ..... | 0.82 | 0.0 | 2 | 14 | 5 | 12 | n. | Pierre Gaillard. |
| Florence | Florence | 136 | 22 | 60.0 | + 4.9 | 95 | 31 | 30 | 16 | 41 | 0.93 | − 2.29 | 0.45 | 0.0 | 4 | 22 | 3 | 6 | sw. | H. K. Gilbert. |
| Georgetown | Georgetown | 12 | 17 | 60.6 | + 2.2 | 86 | 31 | 32 | 16 | 32 | 0.27 | − 3.06 | 0.17 | 0.0 | 2 | 22 | 5 | 4 | sw. | Wm. Alden James. |
| Greenville | Greenville | 989 | 18 | 57.0 | + 6.6 | 85 | 31 | 26 | 16 | 35 | 2.20 | − 3.36 | 1.58 | 0.0 | 6 | 19 | 2 | 10 | sw. | Mrs. S. A. Crittenden. |
| Greenwood | Greenwood | 671 | 22 | 58.8 | + 5.2 | 86 | 30† | 28 | 15† | 35 | 1.12 | − 2.89 | 0.72 | 0.0 | 3 | 24 | 0 | 7 | w. | M. M. Calhoun. |
| Heath Springs | Lancaster | 568 | 9 | 60.4 | ..... | 84 | 30 | 31 | 14 | 31 | 0.65 | ..... | 0.24 | 0.0 | 4 | 24 | 4 | 3 | w. | J. A. Weaner. |
| Jacksonboro | Colleton | 13 | 2 | 59.0[b] | ..... | 82[b] | 31 | 29[b] | 16 | 32[b] | 1.97 | ..... | 1.49 | 0.0 | 2 | 26 | 1 | 4 | sw. | W. E. Haskell, jr. |
| Kingstree | Williamsburg | 54 | 22 | 59.8 | + 1.6 | 85 | 30 | 29 | 16 | 35 | 0.80 | − 2.49 | 0.65 | 0.0 | 2 | 23 | 5 | 3 | ne. | A. O. Matthews. |
| Liberty | Pickens | 900 | 16 | 58.6 | + 5.8 | 86 | 31 | 24 | 16 | 36 | 1.85 | − 3.06 | 0.85 | 0.0 | 4 | 23 | 5 | 3 | sw. | Jno. T. Boggs. |
| Little Mountain | Newberry | 711 | 17 | 59.8 | + 3.5 | 86 | 30 | 87 | 15 | 32 | 0.47 | − 3.51 | 0.40 | 0.0 | 2 | 25 | 4 | 2 | sw. | Dr. J. M. Sease. |
| Newberry | ...do | 502 | 6 | 59.0 | + 4.3 | 87 | 30 | 24 | 16 | 37 | 0.40 | − 3.86 | 0.35 | 0.0 | 4 | 15 | 12 | 4 | sw. | W. G. Peterson. |
| Pelzer | Anderson | 873 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.18 | ..... | 2.66 | 0.0 | 4 | 17 | 8 | 6 | w. | John M. Ward. |
| Pinopolis | Berkeley | 55 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.83 | − 1.43 | 1.80 | 0.0 | 4 | ..... | ..... | ..... | nw. | Miss E. P. Ravenel. |
| St. George | Dorchester | 109 | 22 | 61.0 | + 2.7 | 85 | 30† | 31 | 16 | 32 | 1.30 | − 1.92 | 1.00 | 0.0 | 3 | 22 | 0 | 9 | ..... | G. F. Lewis. |
| St. Matthews | Calhoun | 209 | 22 | 60.5 | + 4.2 | 84 | 30 | 32 | 16 | 36 | 1.11 | − 2.29 | 0.57 | 0.0 | 4 | 25 | 0 | 6 | ..... | J. S. Wannamaker. |
| Saluda | Saluda | 530 | 8 | 59.2 | ..... | 87 | 31 | 24 | 16 | 34 | 0.68 | ..... | 0.52 | 0.0 | 4 | 25 | 1 | 5 | w. | Alvin Etheridge. |
| Santuc | Union | 512 | 15 | 58.2 | + 4.5 | 86 | 30 | 25 | 16 | 35 | 0.48 | − 3.78 | 0.40 | 0.0 | 3 | 18 | 10 | 3 | w. | E. W. Jeter. |
| Smith Mills | Williamsburg | 62 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.14 | − 2.65 | 1.02 | 0.0 | 2 | 15 | 0 | 16 | se. | W. G. Walker. |
| Society Hill | Darlington | 192 | 19 | 58.2 | + 2.6 | 85 | 31 | 30 | 13† | 31 | 1.17 | − 1.99 | 0.59 | 0.0 | 6 | 23 | 5 | 3 | ne. | J. J. Lucas. |
| Spartanburg | Spartanburg | 875 | 19 | 58.4 | + 6.6 | 90 | 31 | 23 | 16 | 38 | 3.54 | − 1.21 | 2.85 | 0.0 | 4 | 24 | 0 | 7 | ..... | F. P. Robinson. |
| Summerville | Dorchester | 75 | 13 | 61.8 | + 2.6 | 90 | 31 | 29 | 16 | 38 | 1.74 | − 1.55 | 1.45 | 0.0 | 5 | 11 | 18 | 2 | sw. | Miss E. H. Gadsen. |
| Trenton | Edgefield | 620 | 17 | 59.7 | + 2.7 | 86 | 30† | 27 | 14 | 36 | 0.28 | − 4.18 | 0.23 | 0.0 | 2 | 25 | 3 | 3 | s. | C. A. Long. |
| Trial | Berkeley | 85 | 23 | 59.2 | + 2.9 | 89 | 31 | 27 | 16 | 41 | 0.98 | − 2.51 | 0.80 | 0.0 | 2 | 14 | 12 | 5 | sw. | Etsell Gaillard. |
| Walhalla | Oconee | 1,061 | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | N. L. Fant. |
| Walterboro | Colleton | 69 | 6 | 64.2[c] | ..... | 93[c] | 31 | 27[c] | 16 | 43[c] | 1.27 | ..... | 1.20 | 0.0 | 4 | 21 | 6 | 4 | ..... | J. A. Westerberg. |
| Winnsboro | Fairfield | 545 | 21 | 59.4 | + 6.0 | 84 | 30 | 26 | 16 | 40 | 3.30 | − 0.64 | 1.50 | 0.0 | 4 | 26 | 2 | 3 | sw. | John W. Seigler. |
| Winthrop College | York | 690 | 11 | 58.8 | + 4.4 | 86 | 30† | 26 | 15 | 32 | 0.93 | − 3.14 | 0.40 | 0.0 | 3 | 23 | 5 | 3 | s. | E. R. Rivers. |
| Yemassee | Hampton | 23 | 15 | 60.2 | + 1.2 | 86 | 30† | 28 | 16 | 38 | 1.27 | − 2.10 | 0.85 | 0.0 | 3 | 26 | 0 | 5 | ..... | J. G. Hutson. |
| *Georgia.* | | | | | | | | | | | | | | | | | | | | |
| Abbeville | Wilcox | ..... | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.60 | ..... | 0.42 | 0.0 | 4 | 21 | 0 | 10 | w. | W. H. Calhoun. |
| Adairsville | Bartow | 772 | 18 | 57.6[d] | + 4.5 | 85[b] | 27 | 26[b] | 16 | 44[d] | 0.89 | − 4.79 | 0.38 | 0.0 | 5 | 21 | 7 | 3 | ..... | Dr. J. P. Bowdoin. |
| Albany | Dougherty | 230 | 25 | 63.6 | + 2.6 | 91 | 26 | 31 | 16 | 41 | 1.46 | − 3.61 | 0.50 | 0.0 | 5 | 15 | 6 | 9 | se. | Geo. C. Brosnan. |
| Allapaha | Berrien | 293 | 21 | 63.9 | + 4.1 | 91 | 31 | 34 | 16 | 34 | 3.01 | − 1.63 | 1.37 | 0.0 | 5 | 12 | 13 | 6 | w. | James T. Austin. |
| Americus | Sumter | 362 | 27 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | O. D. Reese. |
| Athens | Clarke | 694 | 33 | 58.4 | + 6.3 | 82 | 30† | 28 | 15 | 36 | 4.18 | − 1.02 | 3.62 | 0.0 | 4 | 15 | 8 | 8 | w. | C. D. Cox. |
| Atlanta | Fulton | 1,218 | 45 | 60.7 | + 8.1 | 85 | 27 | 28 | 15 | 28 | 2.03 | − 3.54 | 1.14 | 0.0 | 4 | 16 | 9 | 6 | w. | U. S. Weather Bureau. |
| Augusta | Richmond | 180 | 44 | 61.0 | + 3.7 | 86 | 31 | 30 | 16 | 34 | 0.69 | − 4.04 | 0.50 | 0.0 | 3 | 16 | 5 | 10 | se. | U. S. Weather Bureau. |
| Bainbridge | Decatur | 119 | 18 | 64.4 | + 0.9 | 95 | 27 | 26 | 16 | 46 | 2.69 | − 2.49 | 0.95 | 0.0 | 5 | 22 | 2 | 7 | n. | Mrs. C. O. Wimberley. |
| Barnesville | Pike | 875 | 2 | 61.8 | ..... | 85 | 26† | 29 | 15 | 30 | 0.95 | ..... | 0.57 | 0.0 | 4 | 14 | 15 | 2 | sw. | Prof. T. O. Galloway. |
| Blakely | Early | 300 | 19 | 64.2 | + 2.8 | 95 | 27 | 29 | 16 | 48 | 1.17 | − 4.54 | 0.64 | 0.0 | 4 | 18 | 10 | 3 | s. | Ralph M. Hobbs. |
| Brunswick | Glynn | 14 | 12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. B. High. |
| Butler | Taylor | 650 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.17 | ..... | 0.37 | 0.0 | 3 | 22 | 1 | 8 | sw. | Mrs. Mamie F. Wallace. |
| Camak | Warren | 613 | 17 | 58.8[a] | + 2.2 | 83[a] | 29 | 27 | 15† | 41[a] | 0.99 | − 3.30 | 0.56 | 0.0 | 3 | 20 | 8 | 3 | ..... | J. A. Chapman. |
| Canton | Cherokee | 894 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.55 | − 4.79 | 0.55 | 0.0 | 2 | 16 | 6 | 9 | n. | J. M. McAfee. |
| Carlton | Madison | 557 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.72 | − 1.96 | 2.18 | 0.0 | 3 | 27 | 0 | 4 | w. | M. C. Power. |
| Carrollton | Carroll | ..... | 13 | 60.3 | + 6.8 | 87 | 14† | 25 | 16 | 49 | 1.70 | − 4.05 | 0.85 | 0.9 | 5 | 20 | 9 | 2 | nw. | J. T. Folk. |
| Clayton | Rabun | 2,100 | 17 | 54.5 | + 3.9 | 82 | 25† | 24 | 15 | 41 | 2.51 | − 4.64 | 0.95 | 0.0 | 5 | 25 | 3 | 3 | w. | A. J. Duncan. |
| Columbus | Muscogee | 262 | 23 | 61.5 | + 1.7 | 89 | 29 | 32 | 16 | 38 | 2.52 | − 2.96 | 1.88 | 0.0 | 4 | 16 | 7 | 8 | nw. | A. J. Land. |
| Covington | Newton | 800 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.78 | − 0.94 | 3.30 | 0.0 | 3 | 23 | 5 | 3 | s. | Rufus Cruse. |
| Cuthbert | Randolph | 446 | 11 | 63.0 | + 2.4 | 90 | 26† | 27 | 15 | 41 | 0.89 | ..... | 0.54 | 0.0 | 2 | 13 | 16 | 2 | ..... | Prof. W. McMichael. |
| Dahlonega | Lumpkin | 1,519 | 18 | 58.0 | + 6.7 | 83 | 25† | 25 | 15 | 34 | 1.38 | − 4.69 | 0.42 | 0.0 | 5 | 10 | 18 | 3 | nw. | Prof. B. P. Gailliard. |
| Diamond | Gilmer | 2,020 | 20 | 55.7[a] | + 6.0 | 83[a] | 25 | 23[a] | 15† | 38[a] | 1.66 | − 4.79 | 0.71 | 0.0 | 6 | 22 | 5 | 4 | ..... | R. A. Kimzey. |
| Douglass | Coffee | 500 | 3 | 62.4 | ..... | 87 | 26† | 30 | 16 | 40 | 4.83 | ..... | 2.62 | 0.0 | 7 | 25 | 5 | 1 | w. | Prof. C. W. Davis. |
| Dublin | Laurens | 452 | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.94 | − 4.10 | 0.48 | 0.0 | 3 | 22 | 0 | 9 | n. | Mrs. M. E. Martin. |
| Dudley | ...do | ..... | 8 | 62.6 | ..... | 87 | 31 | 31 | 16 | 37 | 0.43 | ..... | 0.20 | 0.0 | 4 | 16 | 12 | 3 | sw. | J. H. M. O. Sullivan. |
| Eastman | Dodge | 361 | 19 | 64.4 | + 2.1 | 92 | 31 | 32 | 16 | 37 | 1.01 | − 2.47 | 0.53 | 0.0 | 3 | 20 | 7 | 4 | w. | Miss A. M. Bohannon. |
| Eatonton | Putnam | ..... | 7 | 60.0 | ..... | 86 | 31 | 26 | 16 | 37 | 0.96 | ..... | 0.57 | 0.0 | 3 | ..... | ..... | ..... | ..... | Prof. W. C. Wright. |
| Elberton | Elbert | 710 | 19 | 60.2 | + 5.2 | 87 | 31 | 27 | 14† | 42 | 0.97 | − 4.12 | 0.52 | 0.0 | 4 | 27 | 3 | 1 | w. | H. A. Roebuck. |
| Experiment | Spalding | 946 | 10 | 60.8 | + 4.0 | 84 | 26† | 26 | 16 | 34 | 0.68 | − 3.80 | 0.39 | 0.0 | 4 | 12 | 14 | 5 | ..... | Martin V. Calvin. |
| Fort Gaines | Clay | 166 | 23 | 62.1 | + 2.2 | 89 | 27 | 26 | 16 | 45 | 1.27 | − 3.96 | 0.45 | 0.0 | 4 | 20 | 0 | 11 | se. | Mrs. Eva T. Graham. |
| Gainesville | Hall | 1,254 | 34 | ..... | ..... | ..... | ..... | 27 | 15 | ..... | 1.02 | − 5.74 | 0.46 | 0.0 | 3 | 17 | 0 | 14 | w. | W. C. Walker. |
| Gillsville | ...do | 1,052 | 20 | 59.6 | + 6.6 | 87 | 31 | 25 | 16 | 37 | 1.03 | − 4.42 | 0.66 | 0.0 | 2 | 11 | 17 | 3 | sw. | J. W. Casey. |
| Glennville | Tatnall | ..... | 5 | 61.0 | ..... | 84 | 31 | 29 | 16 | 33 | 2.07 | ..... | 1.02 | 0.0 | 5 | 24 | 4 | 3 | n. | Wm. C. Barnard. |
| Gore | Chattooga | ..... | 12 | 57.8 | + 5.0 | 87 | 25 | 23 | 16 | 40 | 1.20 | − 5.24 | 0.70 | 0.0 | 5 | 23 | 3 | 5 | sw. | H. M. Ponder. |
| Greensboro | Greene | 598 | 8 | 59.4 | ..... | 84 | 31 | 28 | 16 | 33 | 2.32 | ..... | 0.78 | 0.0 | 5 | 16 | 7 | 8 | w. | R. L. Caldwell. |
| Griffin | Spalding | 975 | 21 | 60.4 | + 2.4 | 87 | 27 | 25 | 15 | 34 | 2.10 | − 2.50 | 1.45 | 0.0 | 5 | 22 | 2 | 7 | sw. | V. P. Enloe. |
| Harrison | Washington | 245 | 12 | 60.1 | + 1.5 | 86 | 26† | 28 | 16 | 40 | 0.37 | − 4.07 | 0.16 | 0.0 | 4 | 28 | 0 | 3 | s. | A. W. J. Wood. |
| Hartwell | Hart | 838 | 2 | 59.6 | ..... | 87 | 31 | 25 | 16 | 39 | 1.27 | ..... | 0.45 | 0.0 | 4 | 27 | 3 | 1 | sw. | Dr. W. I. Hailey. |
| Hawkinsville | Pulaski | 235 | 15 | 61.5[c] | + 3.5 | 89[c] | 26† | 30[c] | 16 | 41[c] | 0.52[c] | − 4.89 | 0.34[c] | 0.0[c] | 2[c] | 20[c] | 1[c] | 7[c] | s. | R. H. Wood. |
| Helena | Telfair | 260 | 3 | 63.3 | ..... | 90 | 26 | 30 | 16 | 36 | 0.94 | ..... | 0.76 | 0.0 | 4 | 2 | 21 | 8 | w. | James D. Smith. |
| LaFayette | Walker | 871 | 4 | 56.9 | ..... | 87 | 25 | 20 | 16 | 41 | 0.57 | ..... | 0.35 | 0.0 | 4 | 20 | 8 | 3 | nw. | Ralph A. Snow. |
| Lisbon | Lincoln | ..... | 4 | 59.0 | ..... | 88 | 31 | 23 | 16 | 40 | 0.66 | ..... | 0.25 | 0.0 | 5 | 20 | 0 | 11 | nw. | B. J. DuBose. |
| Lost Mountain | Cobb | ..... | 10 | 60.4 | + 5.5 | 86 | 28† | 25 | 15 | 37 | 1.20 | − 4.02 | 0.75 | 0.0 | 3 | 13 | 17 | 1 | w. | A. N. Mayes. |
| Louisville | Jefferson | 259 | 18 | 61.1 | + 3.2 | 84 | 30 | 30 | 16 | 31 | 0.74 | − 3.77 | 0.49 | 0.0 | 2 | 26 | 3 | 2 | ..... | J. C. Little. |
| Lumber City | Telfair | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.96 | ..... | 1.44 | 0.0 | 5 | 24 | 2 | 5 | s. | Walter A. Hilton. |
| Lumpkin | Stewart | 650 | 17 | 64.6 | + 4.8 | 91 | 26† | 31 | 16 | 38 | 1.07 | − 4.15 | 0.64 | 0.0 | 2 | 22 | 7 | 2 | nw. | A. W. Latimer. |
| Macon | Bibb | 370 | 33 | 61.1 | + 4.4 | 86 | 26 | 32 | 16 | 36 | 0.32 | − 5.27 | 0.26 | 0.0 | 2 | 23 | 3 | 5 | nw. | U. S. Weather Bureau. |
| Marshallville | Macon | 500 | 18 | 61.8 | + 2.6 | 88 | 26† | 28 | 16 | 42 | 0.57 | − 4.86 | 0.41 | 0.0 | 4 | 22 | 3 | 6 | e. | E. C. Bryan. |
| Mauzy | Colquitt | ..... | 12 | 63.8 | + 0.9 | 92 | 27 | 30 | 16 | 42 | 3.02 | − 1.35 | 2.54 | 0.0 | 3 | 28 | 0 | 3 | sw. | T. J. Hudson. |
| Milledgeville | Baldwin | 276 | 22 | 60.0[a] | + 4.6 | 84[a] | 26† | 27 | 16 | 40[a] | 1.03 | − 4.30 | 0.62 | 0.0 | 4 | 22 | 5 | 4 | nw. | Prof. O. M. Core. |
| Millen | Jenkins | 158 | 23 | 60.9 | + 2.4 | 89 | 31 | 26 | 15 | 44 | 1.33 | − 2.40 | 0.70 | 0.0 | 3 | 21 | 0 | 10 | se. | M. G. McComb. |
| Montezuma | Macon | 292 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.80 | ..... | 0.28 | 0.0 | 5 | 15 | 7 | 9 | se. | W. N. Drewry. |
| Monticello | Jasper | 800 | 14 | 61.5 | + 9.6 | 87 | 31 | 28 | 15 | 33 | 2.09 | − 3.61 | 1.20 | 0.0 | 5 | 25 | 0 | 6 | ..... | Miss Maude C. Penn. |
| Morgan | Calhoun | 337 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. J. Beck. |

TABLE 1.—*Climatological data for March, 1910. District No. 2*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Georgia*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Newnan | Coweta | 959 | 22 | 60.4 | + 5.2 | 88 | 27 | 27 | 15† | 37 | 1.91 | − 3.79 | 1.00 | 0.0 | 5 | 23 | 3 | 5 | n. | Mrs. I. J. Milner. |
| Oakdale | Fulton | 810 | 10 | | | | | | | | 0.78 | − 4.62 | 0.73 | 0.0 | 2 | 19 | 1 | 11 | nw. | W. R. B. Whittier. |
| Point Peter | Oglethorpe | 1,000 | 21 | 59.0 | + 6.7 | 85 | 31 | 28 | 16 | 35 | 0.98 | − 4.15 | 0.55 | 0.0 | 3 | 24 | 5 | 2 | w. | C. M. Witcher. |
| Poulan | Worth | 365 | 19 | 62.2 | + 3.1 | 88 | 26 | 27 | 16 | 41 | 1.32 | − 3.71 | 0.81 | 0.0 | 3 | 23 | 3 | 5 | ..... | Dr. J. F. Wilson. |
| Putnam | Marion | ..... | 11 | 62.2[a] | + 2.7 | 90[a] | 28† | 27[a] | 16 | 38[a] | 0.40 | − 4.24 | 0.40 | 0.0[a] | 1[a] | 15[a] | 10[a] | 5[a] | s. | Mrs. J. M. Collum. |
| Quitman | Brooks | 173 | 26 | 63.6 | + 5.2 | 91 | 28 | 28 | 16 | 40 | 3.03 | − 1.11 | 1.55 | 0.0 | 3 | 27 | 1 | 3 | nw. | A. B. Jones. |
| Ramsey | Murray | 1,363 | 17 | 59.0 | + 4.6 | 81 | 24 | 25 | 16 | 38 | 1.63 | − 4.14 | 0.66 | 0.0 | 6 | 24 | 5 | 2 | s. | D. E. Humphreys. |
| Resaca | Gordon | 657 | 17 | | | | | | | | 1.09 | − 4.59 | 0.82 | 0.0 | 3 | 26 | 0 | 5 | se. | D. A. Norton. |
| Rome | Floyd | 576 | 55 | 58.2 | + 4.7 | 87 | 27 | 24 | 16 | 44 | 1.82 | − 3.86 | 0.92 | 0.0 | 7 | 21 | 2 | 8 | s. | W. M. Towers. |
| St. George | Charlton | ..... | 4 | 62.4 | ..... | 87 | 6 | 27 | 16 | 41 | 2.88 | ..... | 1.56 | 0.0 | 8 | 22 | 0 | 9 | s. | A. N. Lund. |
| St. Marys | Camden | 20 | 19 | 62.2 | + 0.7 | 86 | 9 | 30 | 16 | 38 | 1.83 | − 1.35 | 1.09 | 0.0 | 3 | 22 | 2 | 7 | e. | David C. Sterling. |
| Savannah | Chatham | 65 | 60 | 62.3 | + 2.7 | 85 | 31 | 34 | 16 | 30 | 2.16 | − 1.51 | 1.91 | 0.0 | 3 | 24 | 3 | 4 | s. | U. S. Weather Bureau. |
| Statesboro | Bulloch | 253 | 10 | 62.6 | + 1.8 | 92 | 29 | 29 | 16 | 39 | 1.38 | − 3.41 | 0.87 | 0.0 | 4 | 24 | 4 | 3 | ..... | J. C. Cromley. |
| Talbotton | Talbot | 750 | 17 | 62.6 | + 5.2 | 93 | 26 | 22 | 15 | 45 | 0.79 | − 4.83 | 0.50 | 0.0 | 3 | 23 | 4 | 4 | nw. | Dr. E. L. Bardwell. |
| Tallapoosa | Haralson | 1,150 | 18 | 63.4 | + 7.2 | 88 | 28 | 28 | 15 | 41 | 1.00 | − 4.36 | 1.00 | 0.0 | 1 | 25 | 0 | 6 | se. | R. M. Strickland. |
| Thomasville | Thomas | 273 | 27 | 63.0 | + 1.3 | 90 | 27 | 30 | 16 | 38 | 3.02 | − 1.27 | 2.80 | 0.0 | 3 | 23 | 1 | 7 | s. | U. S. Weather Bureau. |
| Toccoa | Stephens | 1,050 | 25 | 56.6 | + 3.9 | 85 | 31 | 21 | 15 | 36 | 3.28 | − 2.81 | 1.65 | 0.0 | 5 | 23 | 0 | 8 | w. | E. A. Newton. |
| Valdosta | Lowndes | 219 | 5 | 63.7 | ..... | 90 | 27 | 28 | 16 | 43 | 2.55 | ..... | 1.13 | 0.0 | 4 | 18 | 1 | 12 | e. | Miss Annie L. Twitty. |
| Valona | McIntosh | 10 | 10 | 59.9 | − 0.6 | 83 | 31 | 26 | 16 | 41 | 1.92 | − 1.65 | 1.50 | 0.0 | 2 | 28 | 2 | 1 | se. | J. M. Atwood. |
| Washington | Wilkes | 630 | 23 | 60.4 | + 4.5 | 87 | 30† | 28 | 15 | 35 | 1.23 | − 3.20 | 0.28 | 0.0 | 7 | 16 | 7 | 8 | ne. | Miss Ella B. Smith. |
| Waycross | Ware | 131 | 21 | 62.2 | − 0.2 | 90 | 23 | 28 | 16 | 37 | 3.53 | + 0.25 | 1.30 | 0.0 | 5 | 21 | 2 | 8 | ne. | Thomas Sasser. |
| Waynesboro | Burke | 86 | 19 | 61.4 | + 2.1 | 86 | 31 | 29 | 15 | 36 | 1.43 | − 2.09 | 0.50 | 0.0 | 4 | 24 | 4 | 3 | e. | Mrs. H. W. Blount. |
| West Point | Troup | 620 | 22 | 59.9 | + 2.9 | 87 | 26† | 32 | 15 | 41 | 1.66 | − 3.13 | 1.06 | 0.0 | 3 | 21 | 1 | 9 | nw. | E. N. Dunn. |
| Woodbury | Meriwether | 641 | 10 | 57.6[a] | ..... | 80[a] | 26 | 24[a] | 16 | 44[a] | 2.60[a] | − 1.93 | 1.85[a] | 0.0[a] | 3[a] | 24[a] | 2[a] | 4[a] | sw. | G. A. Wright. |
| *Florida.* | | | | | | | | | | | | | | | | | | | | |
| Apalachicola‖ | Franklin | 24 | 6 | 63.0 | ..... | 80 | 7 | 38 | 16 | 26 | 1.56 | ..... | 1.08 | 0.0 | 3 | 26 | 3 | 2 | se. | G. H. Whiteside. |
| Arcadia | De Soto | 61 | 9 | 66.0 | ..... | 89 | 31 | 40 | 13† | 44 | 0.80 | ..... | 0.35 | 0.0 | 8 | 22 | 5 | 4 | e. | C. S. Bushnell. |
| Archer | Alachua | 92 | 24 | 65.6 | + 1.5 | 92 | 31 | 29 | 16 | 43 | 1.27 | − 2.30 | 0.55 | 0.0 | 5 | 18 | 10 | 3 | ..... | R. B. Hodgson. |
| Avon Park | De Soto | 150 | 12 | 67.0 | − 2.4 | 88 | 10 | 42 | 13 | 37 | 2.40 | + 0.25 | 1.19 | 0.0 | 4 | 27 | 2 | 2 | ne. | O. R. Thacher. |
| Bartow | Polk | 115 | 14 | 65.8 | − 3.1 | 91 | 31 | 36 | 17 | 43 | 2.19 | − 0.14 | 1.28 | 0.0 | 5 | 20 | 8 | 3 | ne. | Wm. Hood. |
| Blountstown | Calhoun | ..... | 2 | | | | | | | | | | | | | | | | | C. L. Hobbs. |
| Bonifay | Holmes | 111 | 8 | 64.2[d] | ..... | 92[d] | 27 | 30[d] | 16 | 40[d] | ..... | ..... | ..... | 0.0 | ..... | ..... | ..... | ..... | s. | Wm. Rush. |
| Brooksville | Hernando | 126 | 16 | 66.4 | − 0.4 | 89 | 31 | 37 | 17 | 37 | 1.47 | − 0.95 | 0.76 | 0.0 | 3 | 24 | 7 | 0 | nw. | C. C. Peck. |
| Carrabelle | Franklin | 10 | 11 | | | 82 | 21 | | | | 2.12 | − 1.73 | 1.22 | 0.0 | 3 | ..... | ..... | ..... | ..... | J. J. Blomquist. |
| Cedar Keys | Levy | 10 | 12 | 64.2 | + 1.4 | 82 | 29 | 39 | 16 | 24 | 0.53 | − 2.83 | 0.13 | 0.0 | 6 | 28 | 1 | 2 | nw. | J. B. Lutterloh. |
| Clermont | Lake | 105 | 17 | | | | | | | | | | | | | | | | | S. S. Fesler. |
| DeFuniak Springs | Walton | 193 | 13 | 64.5[d] | + 2.2 | 91[d] | 27 | 33[d] | 15† | 35[d] | 0.37 | − 5.64 | 0.35 | 0.0 | 2 | ..... | ..... | ..... | ..... | R. W. Storrs. |
| DeLand | Volusia | 27 | 12 | 64.2 | − 2.4 | 86 | 10 | 32 | 17 | 42 | 2.78 | ..... | 1.52 | 0.0 | 6 | 22 | 4 | 5 | ne. | Dr. C. B. Webster. |
| Eustis | Lake | 56 | 19 | 66.6 | − 0.6 | 90 | 31 | 38 | 17 | 39 | 1.38 | − 1.21 | ..... | 0.0 | ..... | 25 | 5 | 1 | ne. | C. T. Smith. |
| Federal Point | Putnam | 5 | 17 | 65.0 | 0.0 | 85 | 9† | 36 | 17 | 37 | 1.95 | − 1.13 | 1.26 | 0.0 | 6 | 22 | 7 | 2 | e. | E. S. Hubbard. |
| Fenholloway | Taylor | 75 | 3 | | | 87[k] | 30† | 29[j] | 16 | 57[k] | 0.34 | ..... | 0.34 | 0.0 | 1 | ..... | ..... | ..... | ..... | Miss E. Wigglesworth. |
| Fernandina | Nassau | 10 | 11 | 62.8 | − 1.4 | 84 | 9 | 39 | 16 | 32 | 2.29 | − 0.83 | 1.66 | 0.0 | 4 | 23 | 5 | 3 | ne. | W. B. C. Duryee. |
| Fort Meade | Polk | 125 | 25 | 66.1 | − 0.5 | 90 | 31 | 38 | 16† | 43 | 1.47 | − 0.86 | 0.60 | 0.0 | 4 | 25 | 5 | 1 | ne. | G. L. Broderick. |
| Fort Myers | Lee | 12 | 26 | 67.2 | − 1.9 | 84 | 27 | 46 | 16 | 30 | 0.73 | − 1.36 | 0.32 | 0.0 | 3 | 28 | 3 | 0 | e. | Miss M. M. Gardner. |
| Fort Pierce | St. Lucie | 6 | 17 | 65.2 | − 3.9 | 84 | 7 | 44 | 14 | 36 | 1.28 | − 1.74 | 0.65 | 0.0 | 2 | 25 | 4 | 2 | ne. | T. J. O'Brien. |
| Gainesville | Alachua | 176 | 21 | 65.2 | + 0.6 | 85 | 27† | 32 | 16 | 33 | 2.67 | − 0.36 | 1.04 | 0.0 | 6 | 25 | 3 | 3 | ..... | J. P. H. Bell. |
| Grasmere‖ | Orange | 175 | 13 | 65.6 | − 2.1 | 87 | 10† | 36 | 17 | 39 | 1.37 | ..... | 0.50 | 0.0 | 5 | 29 | 1 | 1 | ..... | J. B. Escott. |
| Hilliard | Nassau | 69 | 1 | 62.9 | ..... | 89 | 8 | 30 | 16 | 43 | 2.20 | ..... | 1.10 | 0.0 | 4 | 26 | 0 | 5 | ..... | The Hilliard Co. |
| Huntington | Putnam | 56 | 13 | 63.9[e] | − 2.5 | 87[e] | 11† | 30[e] | 16 | 45[e] | 1.61 | − 0.99 | ..... | 0.0 | 5 | ..... | ..... | ..... | ..... | C. E. Walker. |
| Hypoluxo | Palm Beach | 4 | 12 | 67.0 | − 4.2 | 82 | 7 | 47 | 14 | 32 | 3.62 | + 1.13 | 0.70 | 0.0 | 8 | 23 | 7 | 1 | nw. | G. A. Angevine. |
| Inverness | Citrus | 43 | 9 | 64.4 | ..... | 85 | 10 | 36 | 17† | 38 | 0.70 | ..... | 0.38 | 0.0 | 4 | 4 | 23 | 4 | ne. | W. H. Miller. |
| Jacksonville | Duval | 101 | 38 | 64.6 | + 2.7 | 83 | 9 | 38 | 16 | 27 | 1.89 | − 1.63 | 0.89 | 0.0 | 5 | 23 | 4 | 4 | ne. | U. S. Weather Bureau. |
| Jasper | Hamilton | 152 | 9 | 63.7 | ..... | 89 | 27 | 29 | 16 | 50 | 3.66 | − 0.16 | 1.73 | 0.0 | 3 | ..... | ..... | ..... | ..... | G. W. Duncan. |
| Johnstown | Bradford | 125 | 11 | 62.8 | − 2.2 | 88 | 28 | 25 | 16 | 45 | 2.19 | − 0.73 | 1.30 | 0.0 | 7 | 20 | 7 | 4 | ..... | A. M. C. Brasch. |
| Jupiter | Palm Beach | 34 | 22 | 68.0 | − 1.4 | 81 | 7 | 53 | 14 | 24 | 6.45 | + 3.33 | 4.97 | 0.0 | 8 | 12 | 16 | 3 | ne. | U. S. Weather Bureau. |
| Key West | Monroe | 14 | 39 | 71.3 | − 1.5 | 81 | 2 | 61 | 16 | 14 | 0.35 | − 1.13 | 0.33 | 0.0 | 2 | 24 | 7 | 0 | ne. | Do. |
| Kissimmee | Osceola | 65 | 17 | 66.6 | − 0.8 | 87 | 31 | 41 | 16† | 35 | 1.52 | − 0.47 | 0.80 | 0.0 | 5 | 24 | 7 | 0 | ne. | J. A. Simpson. |
| Lake City | Columbia | 210 | 20 | 63.0 | − 1.8 | 86 | 26† | 31 | 17 | 41 | 2.39 | − 2.09 | 0.98 | 0.0 | 5 | 22 | 5 | 4 | ne. | W. B. Knight. |
| Live Oak | Suwanee | 109 | 5 | 63.8 | ..... | 89 | 31 | 31 | 15 | 43 | 4.33 | + 0.02 | 1.71 | 0.0 | 5 | ..... | ..... | ..... | ..... | D. O. Henry. |
| Macclenny | Baker | 125 | 13 | 62.2[a] | − 2.0 | 87[a] | 26 | 27[a] | 16 | 42[a] | 1.63 | − 2.52 | 0.66 | 0.0 | 4 | ..... | ..... | ..... | ne. | Griffing Bros. Co. |
| Madison | Madison | 200 | 6 | 64.2 | ..... | 88 | 26† | 33 | 16 | 40 | 3.74 | + 0.26 | 1.42 | 0.0 | 6 | 21 | 4 | 6 | ne. | E. J. Vann. |
| Malabar | Brevard | 24 | 8 | 65.8 | ..... | 88 | 7 | 40 | 16 | 40 | 1.78 | ..... | 0.64 | 0.0 | 7 | ..... | ..... | ..... | ..... | J. F. Farley. |
| Manatee | Manatee | 8 | 26 | 65.1 | − 1.5 | 86 | 1 | 44 | 13 | 28 | 0.50 | − 2.15 | 0.45 | 0.0 | 2 | 18 | 8 | 5 | n. | W. P. Fuller. |
| Mariana | Jackson | 80 | 8 | 63.3 | ..... | 90 | 26 | 30 | 16 | 41 | 2.22 | ..... | 0.82 | 0.0 | 5 | 10 | 17 | 4 | se. | W. J. Watson. |
| Meritta Island | Brevard | 20 | 27 | 66.0[e] | − 1.6 | 82[e] | 7 | 44[e] | 16 | 27[e] | 2.04 | − 0.47 | 0.93 | 0.0 | 4 | 25 | 3 | 3 | e. | C. D. Provost. |
| Miami | Dade | 5 | 13 | 70.3 | − 2.0 | 89 | 20 | 52 | 14 | 36 | 0.67 | − 2.08 | 0.35 | 0.0 | 2 | 20 | 10 | 1 | se. | E. V. Blackman. |
| Middleburg | Clay | 10 | 8 | | | 87[e] | 31 | | | | 2.40 | ..... | 1.05 | 0.0 | 3 | ..... | ..... | ..... | ..... | G. A. Chalker. |
| Milligan | Santa Rosa | ..... | ..... | 64.6 | ..... | 94 | 27 | 26 | 16 | 44 | 1.48 | ..... | 0.67 | 0.0 | 3 | 25 | 6 | 0 | nw. | W. F. Mapoles. |
| Molino | Escambia | 49 | 8 | 62.6 | ..... | 90 | 27 | 26 | 16 | 39 | 1.48 | ..... | 1.15 | 0.0 | 2 | 13 | 15 | 3 | s. | W. H. Trimmer. |
| Monticello | Jefferson | 207 | 5 | 64.7 | ..... | 86 | 26† | 32 | 16 | 35 | 3.09 | ..... | 2.10 | 0.0 | 3 | 25 | 1 | 5 | sw. | E. C. Potter. |
| Mt. Pleasant | Gadsden | 260 | 4 | 61.6[a] | ..... | 91[a] | 27 | 27[a] | 16 | 51[a] | 2.63 | ..... | 1.50 | 0.0 | 4 | ..... | ..... | ..... | ne. | Miss A. Grubb. |
| Newport | Wakulla | 10 | 9 | 61.8 | ..... | 84 | 26 | 28 | 16 | 38 | 3.51 | − 2.58 | 1.96 | 0.0 | 2 | 29 | 0 | 2 | sw. | J. M. Ladd. |
| New Smyrna | Volusia | 9 | 21 | 64.4 | − 1.5 | 84 | 27 | 37 | 17 | 35 | 1.95 | − 0.89 | 1.34 | 0.0 | 4 | ..... | ..... | ..... | ..... | F. Nordman. |
| Ocala | Marion | 98 | 21 | 65.6 | + 0.3 | 87 | 10† | 32 | 16 | 41 | 1.02 | − 1.86 | 0.63 | 0.0 | 3 | 25 | 4 | 2 | ..... | Dr. F. T. Schreiber. |
| Orange City | Volusia | 39 | 16 | 63.7 | − 3.2 | 90 | 31 | 30 | 17 | 46 | 2.08 | − 0.28 | 0.99 | 0.0 | 4 | 24 | 4 | 3 | sw. | J. D. Graham. |
| Orlando | Orange | 111 | 18 | 66.7 | − 1.1 | 89 | 11 | 36 | 17 | 40 | 2.65 | + 0.37 | 1.50 | 0.0 | 5 | 16 | 12 | 3 | e. | Jas. Thompson. |
| Pensacola | Escambia | 149 | 32 | 64.4 | + 3.3 | 87 | 27 | 39 | 16 | 22 | 1.82 | − 3.54 | 1.48 | 0.0 | 4 | 20 | 6 | 5 | sw. | U. S. Weather Bureau. |
| Plant City | Hillsborough | 121 | 16 | 66.6 | − 1.3 | 89 | 1† | 37 | 16 | 39 | 1.87 | − 0.46 | 1.15 | 0.0 | 2 | ..... | ..... | ..... | e. | E. B. Trask. |
| Rockledge | Brevard | 28 | 2 | 65.8 | ..... | 83 | 7† | 40 | 16 | 30 | 1.83 | ..... | 0.63 | 0.0 | 6 | 27 | 4 | 0 | ne. | Rev. J. H. White. |
| Rockwell | Marion | 60 | 8 | ..... | ..... | 85[e] | 10† | 31[e] | 16 | 44[e] | 0.70 | − 2.78 | 0.50 | 0.0 | 2 | ..... | ..... | ..... | w. | Dunellon Phos. Co. |
| St. Andrew | Washington | 14 | 12 | 62.1 | − 1.0 | 89 | 27 | 39 | 18 | 33 | 1.79 | − 2.31 | 1.52 | 0.0 | 4 | 28 | 3 | 0 | s. | W. A. Emmons. |
| St. Augustine | St. Johns | 19 | 60 | 63.2 | + 0.2 | 84 | 7 | 37 | 17 | 35 | 1.78 | − 0.96 | 1.47 | 0.0 | 4 | 25 | 4 | 2 | ne. | J. R. Palmer. |
| Sand Key | Monroe | 46 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | U. S. Weather Bureau. |
| St. Leo | Pasco | 140 | 14 | 65.6 | − 2.7 | 86 | 9 | 39 | 16 | 35 | 1.68 | − 0.96 | 0.64 | 0.0 | 6 | 23 | 4 | 4 | w. | G. Schneider. |
| Satsuma Heights‖ | Putnam | 98 | 2 | 64.1 | ..... | 87 | 29† | 33 | 16 | 36 | 1.29 | ..... | 0.75 | 0.0 | 6 | 14 | 16 | 1 | se. | The Satsuma Co. |
| Switzerland | St. Johns | 10 | 13 | 64.2[a] | 0.0 | 85[a] | 9 | 34[a] | 17 | 37[a] | 2.02 | − 1.56 | 0.50 | 0.0 | 7 | ..... | ..... | ..... | ..... | W. C. Steele. |
| Tallahassee | Leon | 192 | 23 | 63.6 | + 2.3 | 86 | 26 | 35 | 16 | 35 | 3.97 | − 1.04 | 2.40 | 0.0 | 5 | 19 | 7 | 5 | s. | W. H. Markham. |
| Tampa | Hillsborough | 79 | 20 | 66.2 | + 0.3 | 83 | 28 | 41 | 16 | 26 | 0.58 | − 2.23 | 0.36 | 0.0 | 5 | 24 | 4 | 3 | n. | U. S. Weather Bureau. |
| Tarpon Springs | ....do | 20 | 25 | 64.5 | − 1.3 | 87 | 28† | 37 | 16† | 33 | 0.93 | − 1.62 | 0.75 | 0.0 | 3 | 28 | 2 | 1 | w. | A. P. Albaugh. |
| Titusville | Brevard | 6 | 15 | 66.2 | + 1.1 | 87 | 9† | 41 | 17 | 40 | 2.19 | − 0.49 | 1.60 | 0.0 | 4 | 18 | 10 | 3 | ne. | F. M. Taylor. |
| Wausau | Washington | 250 | 10 | 64.6 | + 1.7 | 93 | 27 | 32 | 15 | 45 | 3.08 | − 2.08 | 1.00 | 0.0 | 4 | 18 | 10 | 3 | s. | Curtis Jones. |
| *Alabama.* | | | | | | | | | | | | | | | | | | | | |
| Alaga | Houston | 105 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.68 | ..... | 0.98 | 0.0 | 5 | 18 | 4 | 9 | n. | James L. Willis. |
| Anniston | Calhoun | 741 | 19 | 60.4 | + 7.9 | 86 | 27 | 25 | 16 | 37 | 1.09 | − 4.69 | 0.54 | 0.0 | 4 | 20 | 5 | 6 | n. | U. S. Weather Bureau. |
| Ashville | St. Clair | 685 | 17 | 59.4 | + 5.1 | 89 | 25 | 24 | 16 | 40 | 1.77 | − 4.77 | 1.00 | 0.0 | 6 | 16 | 8 | 7 | sw. | George R. Cather. |
| Auburn | Lee | 732 | 28 | 62.5[a] | + 6.5 | 89[a] | 27 | 29[a] | 16 | 35[a] | 0.98 | − 4.63 | 0.78 | 0.0 | 4 | 15 | 8 | 8 | sw. | Dr. James T. Anderson. |
| Benton | Lowndes | 140 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.08 | ..... | 0.64 | 0.0 | 2 | 24 | 4 | 3 | e. | S. T. Pruitt. |

TABLE 1.—*Climatological data for March, 1910. District No. 2*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Alabama*—Cont'd. | | | | | | | | | | | | | | | | | | | |
| Bermuda | Concuh | ..... | 23 | 61.8 | + 3.4 | 89 | 27 | 27 | 16 | 42 | 1.64 | − 3.34 | 0.81 | 0.0 | 3 | 24 | 5 | 2 | n. | M. J. Morris. |
| Birmingham | Jefferson | 700 | 22 | 62.3 | + 6. | 88 | 27 | 30 | 15 | 33 | 0.55 | − 5.21 | 0.45 | 0.0 | 3 | 11 | 11 | 9 | n. | U. S. Weather Bureau. |
| Calera | Shelby | 500 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.79 | ..... | 0.34 | 0.0 | 5 | 24 | 1 | 6 | e. | L. G. Privett. |
| Camp Hill | Tallapoosa | 738 | 9 | 61.3 | ..... | 88 | 26 | 27 | 16 | 36 | 0.90 | ..... | 0.87 | 0.0 | 2 | 26 | 2 | 3 | w. | Dr. Lyman Ward. |
| Cedar Bluff | Cherokee | 594 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.20 | ..... | 0.65 | 0.0 | 3 | 22 | 7 | 2 | ..... | Joe L. Daniel. |
| Citronelle | Mobile | 331 | 22 | 65.8 | + 3.9 | 89 | 27 | 34 | 16 | 30 | 1.61 | − 3.87 | 1.33 | 0.0 | 5 | 22 | 8 | 1 | sw. | George A. Maloney. |
| Clanton | Chilton | 590 | 17 | 61.1 | + 3.6 | 88 | 27 | 25 | 16 | 41 | 0.65 | − 5.27 | 0.36 | 0.0 | 4 | 12 | 1 | 18 | nw. | Wallace C. Edler. |
| Cochrane | Pickens | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.52 | ..... | 0.42 | 0.0 | 3 | 22 | 4 | 5 | se. | E. L. Rose. |
| Cordova | Walker | 334 | 19 | 59.4 | + 5.1 | 89 | 27 | 21 | 16 | 45 | 0.70 | − 5.64 | 0.48 | 0.0 | 2 | 17 | 10 | 4 | s. | Scott Maxwell. |
| Cullman | Cullman | 802 | 2 | 58.6 | ..... | 88 | 24† | 22 | 16 | 45 | 1.01 | ..... | 0.58 | 0.0 | 4 | 19 | 7 | 5 | nw. | Eugene A. Grayot. |
| Dadeville | Tallapoosa | 760 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.69 | ..... | 1.08 | 0.0 | 4 | 13 | 9 | 9 | e. | Dr. W. B. Fulton. |
| Daphne | Baldwin | ..... | 19 | 64.2 | + 2.8 | 88 | 27 | 35 | 16 | 34 | 3.36 | − 2.90 | 2.85 | 0.0 | 2 | 23 | 2 | 6 | sw. | John H. Young. |
| Demopolis | Marengo | ..... | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.18 | − 5.49 | 0.10 | 0.0 | 2 | 19 | 2 | 10 | sw. | George E. Pegram. |
| Eufaula | Barbour | 200 | 26 | 59.4 | + 0.5 | 86 | 26† | 27 | 16 | 40 | 2.58 | − 3.79 | 1.90 | 0.0 | 5 | 22 | 5 | 4 | n. | Dr. J. B. Whitlock. |
| Evergreen | Conecuh | 285 | 26 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Robert L. Whitcomb. |
| Fayette | Fayette | 359 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Charles W. Saunders. |
| Flomaton | Escambia | 91 | 18 | 62.2 | 0.0 | 85 | 9† | 29 | 16 | 44 | 0.64 | − 3.84 | 0.46 | 0.0 | 2 | 28 | 2 | 1 | s. | T. J. Farris. |
| Fort Deposit | Lowndes | 520 | 26 | 62.8 | + 4.1 | 87 | 26† | 33 | 16 | 34 | 1.02 | − 4.55 | 0.43 | 0.0 | 3 | 16 | 6 | 9 | s. | J. F. Hattemer. |
| Gadsden | Etowah | 621 | 26 | 61.2 | + 8.1 | 88 | 24† | 26 | 16 | 39 | 1.74 | − 5.02 | 0.82 | 0.0 | 4 | 18 | 2 | 11 | nw. | D. P. Goodhue. |
| Goodwater | Coosa | 826 | 15 | 60.9 | + 4.4 | 86 | 27 | 26 | 16 | 38 | 2.17 | − 4.16 | 1.05 | 0.0 | 3 | 25 | 0 | 6 | sw. | D. S. Brown. |
| Greensboro | Hale | 220 | 31 | 62.2 | + 5.7 | 88 | 27 | 30 | 16 | 33 | 0.18 | − 5.48 | 0.18 | 0.0 | 1 | 21 | 6 | 4 | nw. | W. E. W. Yerby. |
| Greenville | Butler | 444 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.95 | ..... | 0.43 | 0.0 | 3 | 28 | 0 | 3 | sw. | E. M. Lewis. |
| Hamilton | Marion | ..... | 14 | 61.2° | + 6.7 | 91° | 24 | 21° | 16 | 46° | 0.70 | − 6.62 | 0.58 | 0.0 | 2 | 18 | 8 | 5 | sw. | Prof. H. O. Sargent. |
| Highland Home | Crenshaw | ..... | 18 | 64.3 | + 4.2 | 88 | 26† | 33 | 15† | 32 | 1.04 | − 4.90 | 0.57 | 0.0 | 3 | 18 | 5 | 8 | s. | Prof. Samuel Jordan. |
| Livingston | Sumter | 160 | 26 | 60.2 | + 4.1 | 85 | 24† | 28 | 16 | 38 | 0.53 | − 4.84 | 0.43 | 0.0 | 2 | 24 | 0 | 7 | e. | Robert L. King. |
| Lock No. 4 | Talladega | 510 | 13 | 60.2 | + 4.6 | 87 | 24† | 25 | 16 | 40 | 0.73 | − 5.50 | 0.35 | 0.0 | 4 | 27 | 0 | 4 | n. | U. S. Engineers. |
| Lucy | Houston | ..... | 5 | 61.8[b] | ..... | 93[b] | 28 | 23[b] | 16 | 48[b] | 1.57 | ..... | 1.15 | 0.0 | 3 | 22 | 6 | 3 | ..... | A. L. Crosby. |
| Maple Grove | Cherokee | ..... | 17 | 58.8° | + 5.5 | 88° | 25† | 25° | 16 | 41° | 1.96 | − 5.21 | 0.80 | 0.0 | 5 | 15 | 13 | 3 | nw. | Mrs. A. L. Awbrey. |
| Mentone | DeKalb | 1,505 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.10 | ..... | 0.65 | 0.0 | 2 | 27 | 1 | 3 | w. | E. Mason. |
| Milstead | Macon | ..... | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.50 | ..... | 0.76 | 0.0 | 4 | 13 | 16 | 2 | e. | Evie Oswalt. |
| Mobile | Mobile | 57 | 38 | 65.1 | + 6.0 | 91 | 27 | 37 | 16 | 28 | 1.93 | − 5.24 | 1.32 | 0.0 | 5 | 19 | 10 | 2 | se. | U. S. Weather Bureau. |
| Montgomery | Montgomery | 240 | 38 | 63.6 | + 5.7 | 89 | 27 | 34 | 16 | 32 | 0.85 | − 5.53 | 0.17 | 0.0 | 3 | 20 | 5 | 6 | se. | Do |
| Newbern | Hale | ..... | 17 | 63.6 | + 5.4 | 90 | 24† | 26 | 16 | 42 | 0.44 | − 5.31 | 0.25 | 0.0 | 2 | 24 | 5 | 2 | s. | Dr. J. Huggins. |
| Oneonta | Blount | 857 | 16 | 58.1 | + 3.7 | 86 | 28 | 21 | 16 | 42 | 1.78 | − 5.38 | 1.50 | 0.0 | 5 | 19 | 7 | 5 | n. | Aquilla J. Ketchum. |
| Opelika | Lee | 817 | 31 | 62.2 | + 5.0 | 85 | 26 | 31 | 15 | 34 | 1.21 | − 4.60 | 0.85 | 0.0 | 5 | 19 | 4 | 8 | e. | A. H. Read, Jr. |
| Ozark | Dale | 400 | 8 | 62.4 | ..... | 87 | 26 | 26 | 16 | 40 | 1.30 | ..... | 0.50 | 0.0 | 3 | 24 | 2 | 5 | s. | Miss Lucy Sellers. |
| Prattville | Autauga | 281 | 10 | 62.1 | + 3.1 | 89 | 27 | 25 | 16 | 42 | 2.25 | ..... | 1.15 | 0.0 | 2 | 19 | 5 | 7 | e. | Jos. B. Bell. |
| Pushmataha | Choctaw | ..... | 19 | 62.2 | + 2.8 | 89 | 26† | 26 | 16† | 45 | 0.67 | − 5.37 | 0.54 | 0.0 | 2 | 25 | 2 | 4 | sw. | E. A. Carr. |
| Selma | Dallas | 147 | 30 | 61.0 | + 2.3 | 89 | 26† | 24 | 16 | 48 | 1.82 | − 5.05 | 0.86 | 0.0 | 3 | 12 | 13 | 6 | e. | Charles F. Brislin. |
| Spring Hill | Mobile | 312 | 6 | 65.6 | ..... | 92 | 27 | 34 | 16 | 32 | 1.76 | ..... | 1.22 | 0.0 | 2 | 27 | 3 | 1 | sw. | Rev. J. B. Franckhauser. |
| Talladega | Talladega | 554 | 20 | 62.0 | + 5.5 | 87 | 24† | 25 | 16 | 40 | 0.65 | − 5.81 | 0.25 | 0.0 | 4 | 24 | 5 | 2 | n. | Ross Bartholomew. |
| Tallassee | Elmore | ..... | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.96 | − 4.48 | 1.18 | 0.0 | 4 | 16 | 3 | 12 | nw. | P. A. Noble. |
| Thomasville | Clarke | 385 | 19 | 62.6 | + 2.9 | 88 | 26† | 25 | 16 | 54 | 0.73 | − 5.13 | 0.38 | 0.0 | 3 | 20 | 8 | 3 | n. | J. G. Forster. |
| Troy | Pike | 581 | 2 | 64.1 | ..... | 89 | 27 | 31 | 16 | 36 | 2.99 | ..... | 1.60 | 0.0 | 4 | 19 | 11 | 1 | se. | C. S. Tutwiler. |
| Tuscaloosa | Tuscaloosa | 230 | 29 | 60.4 | + 4.4 | 89 | 27 | 26 | 16 | 42 | 0.43 | − 5.51 | 0.14 | 0.0 | 5 | 25 | 0 | 6 | s. | W. S. Wyman. |
| Tuskegee | Macon | ..... | 10 | 62.0 | + 2.4 | 89 | 27 | 28 | 16 | 38 | 0.52 | − 5.30 | 0.52 | 0.0 | 1 | 15 | 12 | 4 | s. | Prof. George W. Carver. |
| Union Springs | Bullock | 216 | 23 | 62.4 | + 4.8 | 86 | 26† | 32 | 16 | 31 | 1.42 | − 5.21 | 0.87 | 0.0 | 3 | 22 | 8 | 1 | w. | P. L. Cowan. |
| Uniontown | Perry | 273 | 24 | 64.1 | + 5.7 | 89 | 26† | 30 | 16 | 38 | 0.24 | − 5.26 | 0.14 | 0.0 | 3 | 20 | 11 | 0 | nw. | F. D. Stevens. |
| Valley Head | DeKalb | 1,031 | 25 | 56.8 | + 5.8 | 87 | 24† | 19 | 16 | 43 | 0.89 | − 5.70 | 0.60 | 0.0 | 3 | 21 | 9 | 1 | n. | M. T. Floyd. |
| Wetumpka | Elmore | 205 | 18 | 62.5 | + 2.7 | 89 | 26† | 27 | 16 | 41 | 2.31 | − 4.02 | 1.80 | 0.0 | 2 | 18 | 0 | 13 | n. | U. S. Engineers. |
| *Mississippi.* | | | | | | | | | | | | | | | | | | | | |
| Aberdeen | Monroe | 210 | 22 | 60.6 | + 5.5 | 91 | 24 | 25 | 16 | 43 | 0.74 | − 4.53 | 0.62 | 0.0 | 3 | 23 | 3 | 5 | s. | L. D. Godfrey, jr. |
| Agricultural College | Oktibbeha | 424 | 26 | 63.4 | + 7.1 | 92 | 30 | 26 | 16 | 36 | 0.93 | − 5.59 | 0.58 | 0.0 | 2 | 14 | 13 | 4 | e. | S. P. Dent. |
| Bay St. Louis | Hancock | 28 | 17 | 64.7° | + 2.0 | 87° | 27 | 34° | 17 | 32° | 1.44 | − 4.63 | 0.99 | 0.0 | 3 | 19 | 3 | 8 | sw. | Brother Stanislaus. |
| Biloxi | Harrison | 24 | 19 | 65.3 | + 2.6 | 87 | 27 | 36 | 16 | 31 | 1.50 | − 4.76 | 0.62 | 0.0 | 3 | 22 | 6 | 3 | sw. | Miss M. Josie Pope. |
| Booneville | Prentiss | 504 | 16 | 60.2 | + 7.1 | 86 | 25 | 27 | 16 | 36 | 0.18 | − 5.68 | 0.13 | 0.0 | 3 | 27 | 2 | 2 | sw. | Dr. D. T. Price. |
| Brookhaven | Lincoln | 500 | 22 | 63.7° | + 3.6 | 90° | 24 | 27° | 17 | 44[b] | 0.65 | − 5.78 | 0.24 | 0.0 | 3 | 18 | 5 | 8 | w. | W. J. Bee. |
| Columbia | Marion | 119 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.38 | ..... | 0.32 | 0.0 | 2 | 23 | 1 | 7 | nw. | N. R. Drummond. |
| Columbus | Lowndes | 191 | 22 | 61.4 | + 6.2 | 90 | 24 | 25 | 16 | 44 | 0.81 | − 5.54 | 0.53 | 0.0 | 3 | 22 | 2 | 7 | se. | J. B. Love. |
| Crystal Springs | Copiah | 468 | 18 | 63.5 | + 4.1 | 88 | 28 | 29 | 16 | 37 | 1.04 | − 4.26 | 0.63 | 0.0 | 2 | 28 | 2 | 1 | ..... | D. H. Miller. |
| Edinburg | Leake | ..... | 2 | 60.8 | ..... | 89 | 24† | 24 | 16 | 45 | 0.47 | ..... | 0.40 | 0.0 | 3 | 22 | 6 | 3 | n. | J. Y. Blocker. |
| Enterprise | Clarke | 248 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.92 | ..... | 0.44 | 0.0 | 4 | 13 | 4 | 14 | nw. | J. B. Thompson. |
| Fulton | Itawamba | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.36 | ..... | 0.36 | 0.0 | 1 | 20 | 5 | 6 | n. | A. L. Summers. |
| Hattiesburg | Forest | 189 | 17 | 64.2 | + 2.6 | 90 | 24 | 28 | 16 | 45 | 0.94 | − 3.96 | 0.62 | 0.0 | 3 | 23 | 6 | 2 | n. | T. C. Spence. |
| Hazlehurst | Copiah | 460 | 20 | 63.2 | ..... | 91 | 28 | 28 | 16 | 40 | 0.53 | ..... | 0.47 | 0.0 | 2 | 22 | 5 | 4 | s | J. D. Granberry. |
| Jackson | Hinds | 280 | 23 | 63.2 | + 4.0 | 90 | 28 | 27 | 16 | 44 | 1.71 | − 4.81 | 1.24 | 0.0 | 3 | 16 | 12 | 3 | s. | B. H. Klyce. |
| Lake | Scott | 446 | 22 | 62.0 | + 4.8 | 90 | 28 | 24 | 16 | 45 | 0.67 | − 4.52 | 0.32 | 0.0 | 3 | 18 | 3 | 10 | sw. | J. A. Freeman. |
| Lake Como | Jasper | ..... | 7 | 62.8[b] | ..... | 89[b] | 24 | 31[b] | 16 | 41[b] | 1.75 | ..... | 0.90 | 0.0 | 2 | 14 | 13 | 2 | n. | C. Thigpen. |
| Laurel | Jones | 241 | 6 | 64.2 | ..... | 89 | 24† | 29 | 16 | 38 | 0.85 | ..... | 0.65 | 0.0 | 3 | 14 | 14 | 3 | sw. | Thomas W. Flynt. |
| Leakesville | Greene | ..... | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Dr. Sam Pool. |
| Louisville | Winston | 561 | 21 | 61.8 | + 5.6 | 88 | 24† | 26 | 16 | 42 | 0.23 | − 5.65 | 0.23 | 0.0 | 1 | ..... | ..... | ..... | ..... | B. T. Webster. |
| McNeill | Pearl River | 230 | 7 | 64.6 | ..... | 87 | 24 | 30 | 16 | 35 | 0.97 | ..... | 0.97 | 0.0 | 1 | 21 | 7 | 3 | se. | Prof. E. B. Ferris. |
| Macon | Noxubee | 185 | 22 | 61.2 | + 3.8 | 91 | 24 | 26 | 16 | 44 | 0.48 | − 5.46 | 0.40 | 0.0 | 2 | 14 | 9 | 8 | se. | Finis E. Carleton. |
| Magnolia | Pike | 415 | 14 | 64.5 | + 2.5 | 88 | 24 | 29 | 16 | 36 | 0.91 | − 4.87 | 0.88 | 0.0 | 3 | 17 | 10 | 4 | nw. | Miss Ruby V. Roberts. |
| Meridian | Lauderdale | 375 | 20 | 62.1 | + 5.8 | 89 | 28 | 28 | 16 | 38 | 0.86 | − 4.75 | 0.80 | 0.0 | 3 | 17 | 11 | 3 | n. | U. S. Weather Bureau. |
| Merrill | Greene | 76 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.00 | ..... | 0.72 | 0.0 | 3 | 20 | 0 | 11 | e. | L. C. Helms. |
| Monticello | Lawrence | 209 | 3 | 62.4[1] | ..... | 89[k] | 28 | 33[1] | 13 | 47[1] | ..... | ..... | ..... | 0.0 | ... | 12 | 6 | 2 | w. | Dr. G. A. Teunisson. |
| Okolona | Chickasaw | 311 | 22 | 60.2 | + 4.9 | 90 | 24 | 27 | 16 | 41 | 0.37 | − 4.47 | 0.30 | 0.0 | 2 | 13 | 10 | 8 | se. | D. H. Shell. |
| Pascagoula | Jackson | 15 | 1 | 63.3 | ..... | 85 | 27 | 34 | 16 | 31 | 3.32 | ..... | 2.20 | 0.0 | 3 | 22 | 7 | 2 | s. | Tom Swartwout. |
| Pearlington | Hancock | 10 | 22 | 64.6° | + 2.1 | 86° | 27 | 30° | 16 | 35° | 1.93 | − 3.79 | 1.33 | 0.0 | 4 | 21 | 7 | 2 | sw. | Miss Annette Koch. |
| Porterville | Kemper | ..... | 5 | 62.3 | ..... | 90 | 24 | 25 | 16 | 42 | 1.15 | ..... | 0.75 | 0.0 | 2 | 15 | 14 | 2 | sw. | I. S. Rea. |
| Shubuta | Clarke | 197 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.38 | ..... | 0.32 | 0.0 | 3 | 19 | 5 | 7 | n. | Geo. A. Floyd. |
| Waynesboro | Wayne | 191 | 23 | 61.7[d] | + 3.9 | 88[d] | 27 | 27[d] | 16 | 42[d] | 1.23 | − 3.62 | 1.05 | 0.0 | 3 | 13 | 4 | 14 | n. | R. S. Burke. |
| Woodland | Chickasaw | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.96 | ..... | 0.60 | 0.0 | 3 | ..... | ..... | ..... | ..... | Tallahatchie Drain. Com. |
| *Louisiana.* | | | | | | | | | | | | | | | | | | | | |
| Pearl River | St. Tammany | ..... | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.86 | ..... | 0.80 | 0.0 | 4 | 24 | 6 | 1 | w. | Geo. F. Bancks. |

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
° Precipitation included in that of the next measurement.
°° Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
‖ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
Estimated by observer.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1910. District No. 2, South Atlantic and east Gulf States.*

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Virginia.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arvonia | James | .20 | .10 | | | .01 | | | | | .05 | .20 | .01 | | | | | | | | | T. | | | | | | | | | | | 0.57 |
| Ashland | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Buchanan‖ | ...do | .36 | .13 | .06 | | .04 | .05 | | | | | .16 | | | | | | | | | | T. | | | | | | | | | | | 0.80 |
| Callaville | Chowan | 1.60 | | | | | | | | | | .41 | .30 | .32 | | | | | | | | | | | | | | | | | | | 2.63 |
| Cape Henry | Coast | .91 | | | | | | | | | .38 | .17 | .62 | .06 | | | | | | | | | | | | | | | | | | | 2.14 |
| Catawba | Roanoke | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charlottesville | James | .21 | .03 | | | .02 | | | | | .25 | .15 | | | | | | | | | T. | | | | | | | | | | | | 0.66 |
| Clarkesville‖ | Roanoke | 1.56 | .50 | | | | | | | | | .24 | .60 | .20 | | | | | | | | | | | | | | | | | | | 3.10 |
| Columbia | James | .62 | .35 | .02 | | | | | | | .07 | .15 | .02 | | | | | | | | | | | | | | | | | | | | 1.23 |
| Danville‖ | Roanoke | .86 | .07 | | | | .24 | | | | | .25 | .12 | T. | | | | | | | | | | | | | | | | | | | 1.54 |
| Diamond Springs | Coast | .75 | .36 | | | | .05 | | | | .81 | .47 | 1.54 | | | | | | | | | | | | | | | | | | | | 3.98 |
| Hampton | ...do | .36 | .86 | .30 | | | | | | | .26 | | .70 | .90 | | | | | | | | | | | | | | | | | | | 3.38 |
| Hot Springs‖ | James | .52 | .13 | | | | .18 | | | | .17 | .25 | | | | | | | | | | .12 | | | | | | | | | | | 1.37 |
| Ivor | Chowan | .40 | .28 | .71 | | | | | | | .27 | .40 | .53 | .56 | | | | | | | | | | | | | | | | | | | 3.15 |
| Lassiter | James | 1.46 | | | | | | | | | .10 | .18 | .26 | | | | | | | | | | | | | | | | | | | | 2.00 |
| Lexington | ...do | .11 | .05 | | | .02 | | | | | .11 | .13 | | | | | | | | | .02 | .14 | | | | | | | | | | | 0.58 |
| Lynchburg | ...do | .19 | T. | | | .04 | T. | | | | .13 | T. | T. | | | | | | | | | | | | | | | | T. | | | | 0.36 |
| New Castle‖ | ...do | 1.07 | .09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.16 |
| Newport News | Coast | .44 | 1.07 | .01 | | | T. | | | | .46 | .49 | 1.20 | .18 | | | | | | | | | | | | | | | | | | | 3.85 |
| Norfolk | ...do | .84 | .58 | | | | .01 | | | | .51 | .32 | 1.08 | .09 | | | | | | | | | | | | | | | | | | | 3.43 |
| Petersburg | James | * | 2.00 | .06 | | | | | | | T. | .40 | T. | | .65 | | | | | | | .08 | | | | | | | | | | | 3.11 |
| Randolph‖ | Roanoke | .68 | .28 | | | | .08 | | | | | | .14 | | | | | | | | | | | | | | | | | | | | 1.26 |
| Richmond | James | .65 | .04 | T. | | .01 | T. | | | | .26 | .01 | .45 | T. | | | | | | | T. | | | | | | | | | | | | 1.42 |
| Rocky Mount | Roanoke | .59 | | | | | | .28 | | | .13 | .22 | | | | | | | | | | | | | | | | | | | | | 1.22 |
| Saxe | ...do | 1.05 | .05 | | | .11 | | | | | | .35 | | | | | | | | | | 1.24 | | | | | | | | | | | 2.80 |
| Spottsville (near) | Chowan | 1.00 | .88 | | | | | | | | .52 | .36 | .55 | | | | | | | | | | | | | | | | | | | | 3.31 |
| Williamsburg | James | 1.90 | .70 | .30 | | | | | | | .10 | .35 | .65 | .62 | | | | | | | | | | | | | | | | | | | 4.62 |
| *North Carolina.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beaufort | Bogue Sound | 1.77 | .86 | | .04 | | | | | | .02 | | .32 | T. | | T. | | | | | | | | | | | | | | | | | 3.01 |
| Belhaven | Pungo | 1.00 | .11 | | | | | | | | | | .36 | .19 | | | | | | | | | | | | | | | | | | | 1.66 |
| Brewers | Pedee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Caroleen | Santee | .14 | | | | | | | | | .11 | .59 | | | | | | | | | | .17 | .11 | | | | | | | | | | 1.12 |
| Chalybeate Springs | Cape Fear | .29 | | | | T. | .10 | | | T. | | .27 | .18 | | | | | | | | | | | | | | | | | | | | 0.84 |
| Chapel Hill | ...do | .69 | .03 | | | T. | .12 | | | T. | .03 | .50 | .27 | | | | | | | | | | | | | | | | | | | | 1.64 |
| Charlotte | Santee | .29 | T. | | | | .01 | | | T. | .12 | .42 | .02 | | | | | | | | | T. | | | | | | | | | | | 0.86 |
| Chimney Rock | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clinton | Cape Fear | .36 | | | | .02 | T. | | | .15 | T. | .32 | .02 | | | | | | | | | | | | | | | | | | | | 0.77 |
| Durham (near)‖ | Neuse | .33 | .38 | .15 | | | | | | | .55 | .35 | .04 | | | | | | | | | | | | | | | | | | | | 1.80 |
| Eagletown | Chowan | .46 | .15 | .10 | | | T. | | | T. | T. | .58 | .56 | .30 | | | | | | | | T. | | | | | | | | | | | 2.15 |
| Edenton | Albemarle Sound | .40 | .12 | .72 | | | T. | | | | | .65 | .45 | .67 | | | | | | | | | | | | | | | | | | | 3.01 |
| Fayetteville‖ | Cape Fear | .22 | .14 | | | | .22 | | | | | .28 | .34 | | | | | | | | | | | | | | | | | | | | 1.20 |
| Goldsboro‖ | Neuse | 1.50 | .40 | .10 | | | | | | | T. | .40 | .90 | .05 | | | | | | | | | | | | | | | | | | | 3.35 |
| Graham‖ | Cape Fear | .85 | .27 | | | | .16 | | | | | .79 | .42 | .01 | | | | | | | | T. | | | | | | | | | | | 2.50 |
| Greensboro‖ | ...do | 1.04 | .10 | | | | .17 | | | | | .77 | .42 | | | | | | | | | | | | | | | | | | | | 2.50 |
| Greenville‖ | Tar | .35 | .50 | | | | | | | | | .32 | .34 | .12 | | | | | | | | | | | | | | | | | | | 1.63 |
| Hatteras | Pamlico Sound | .51 | .31 | | | | T. | | | | .02 | .57 | .37 | .33 | | .05 | | | | | T. | | | | | | | | | | | | 2.16 |
| Henderson | Tar | .61 | .15 | | | | | | | T. | .17 | .48 | .32 | | | | | | | | | .06 | | | | | | | | | | | 1.79 |
| Kinston | Neuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lenoir | Santee | .36 | .36 | | | | .29 | | | | .04 | .25 | | | | | | | | | | | | | | | | | .02 | | | | 1.32 |
| Lexington | Pedee | 1.05 | .24 | | | | .54 | | | | .26 | .64 | .05 | | | | | | | | | | | | | | | | | | | | 2.78 |
| Lincolnton | Santee | .02 | .05 | | | | | | | | .02 | .70 | .01 | .15 | | | | | | | | | | | | | | | | | | | 0.95 |
| Louisburg‖ | Tar | .40 | .20 | .65 | | | T. | | | | | .55 | .50 | | | | | | | | | | | | | | | | | | | | 2.30 |
| Lumberton‖ | Lumber | 1.02 | .35 | T. | | | .05 | | | | | .03 | .39 | | | | | | | | | | | | | | | | | | | | 1.84 |
| Manteo | Roanoke Sound | .24 | .10 | | | | | | | | .32 | .38 | 1.02 | | | | | | | | | | | | | | | | | | | | 1.96 |
| Marion | Santee | .37 | .01 | | | | | | | T. | .01 | .45 | T. | | | | | | | | T. | .14 | .51 | | | | | | | | | | 1.49 |
| Moncure‖ | Cape Fear | .68 | .43 | | | | .11 | T. | | | | .28 | .34 | | | | | | | | | | | | | | | | | | | | 1.84 |
| Monroe | Pedee | .42 | | | | | .06 | | | | | .35 | .08 | | | | | | | | | .45 | | | | | | | | | | | 1.36 |
| Morganton | Santee | .68 | | | | | | | | | T. | .52 | | | | | | | | | | | | | | | | | | | | | 1.20 |
| Mount Airy | Pedee | .73 | | | | .02 | .13 | | | T. | .02 | .11 | T. | | | | | | | | | | | | | | | | | | | | 1.01 |
| Mount Holly‖ | Santee | .76 | .60 | | | | | | | | | .44 | .40 | .04 | | | | | | | | | | | | | | | | | | | 2.24 |
| Nashville‖ | Tar | .15 | .20 | .16 | | | | | | | | .37 | .38 | | | | | | | | | | | | | | | | | | | | 1.26 |
| Newbern‖ | Neuse | .46 | .36 | .45 | .04 | | | | | | | | .13 | .25 | | | T. | | | | | | .50 | | | | | | | | | | 2.19 |
| Pinehurst | Lumber | .43 | | | | | | | | | | .50 | | | | | | | | | | | | | | | | | | | | | 0.93 |
| Pittsboro | Cape Fear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Raleigh | Neuse | .26 | | | | .01 | .02 | | | T. | .01 | .58 | .13 | | | | | | | | | | | | | | | | | | | | 1.01 |
| Ramseur | Cape Fear | .90 | | | | | | .16 | | | | .98 | | | | | | | | | | | | | | | | | | | | | 2.04 |
| Randleman‖ | ...do | 1.30 | .07 | .03 | | | .33 | | | | .02 | .43 | .33 | | | | | | | | | | | | | | | | | | | | 2.51 |
| Reidsville‖ | ...do | .79 | .02 | .15 | | | .16 | | | | | .51 | .21 | | | | | | | | | | | | | | | | | | | | 1.84 |
| Rockhouse | Savannah | .13 | T. | | | | | | | | .63 | .12 | | | | | | | | | .47 | | T. | | .02 | | | | | | | | 1.37 |
| Rockingham | Pedee | .47 | | | | | .11 | | | | | .50 | | | | | | | | | | | | | | | | | | | | | 1.08 |
| Roxboro | Roanoke | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salem | Pedee | .30 | .25 | | | | .18 | | | | .20 | .58 | | | | | | | | | | | | | | | | | | | | | 1.51 |
| Salisbury‖ | ...do | 1.30 | .15 | .22 | | | .40 | | | | | .30 | .24 | | | | | | | | | | | | | | | | | | | | 2.61 |
| Saxon‖ | Roanoke | .20 | | | | | .30 | | | | | .45 | | | | | | | | | | | | | | | | | | | | | 0.95 |
| Scotland Neck | Tar | .53 | .12 | .26 | | | | | | | | .47 | .33 | .27 | | | | | | | | | | | | | | | | | | | 1.98 |
| Selma | Neuse | .45 | .52 | | | | | | | | .55 | .40 | .60 | | | | | | | | | | | | | | | | | | | | 2.52 |
| Settle | Pedee | .24 | T. | | | .48 | | | T. | | .10 | .60 | T. | | | | | | | | | | | | | | | | | | | | 1.42 |
| Sloan | Cape Fear | .46 | | | | | .07 | | | | | .09 | .20 | | | | | | | | .02 | | .02 | | | | | | | | | | 0.86 |
| Snow Hill | Neuse | .49 | .15 | | | | | | | | | .53 | .32 | | | | | | | | | | | | | | | | | | | | 1.49 |
| Southern Pines | Cape Fear | .35 | | | | | .20 | | | | | .30 | .18 | | | | | | | | | | | | | | | | | | | | 1.03 |
| Southport | ...do | 1.30 | .41 | | | | | | | | | | .27 | | | | | | | | .09 | | | | | | | | | | | | 2.07 |
| Statesville | Pedee | .46 | .14 | | | | .28 | | | | .12 | .48 | .21 | | | | | | | | | | | | | | | | | | | | 1.69 |
| Tarboro‖ | Tar | .43 | .25 | .16 | | | | | | | T. | .22 | .34 | .18 | | | | | | | | | | | | | | | | | | | 1.58 |
| Troy | Pedee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weldon‖ | Roanoke | .09 | .25 | .06 | | T. | T. | T. | | | T. | .42 | .51 | .33 | | | | | | | | | T. | | | | | | | | | | 1.66 |
| Whiteville | Waccamaw | .28 | .16 | | | | .12 | | | T. | | .10 | .09 | | | | | | | | T. | .02 | | | | | | | | | | | 0.77 |
| Willard | Cape Fear | .63 | .18 | | | | | | | | | .15 | .20 | | | | | | | | | .05 | | | | | | | | | | | 1.21 |
| Wilmington | ...do | .60 | .21 | .03 | | | T. | | | T. | | T. | .18 | | | | | | | | T. | T. | | | | | | | | | | | 1.02 |
| Yanceyville | Roanoke | .80 | | | | | | | | | | .04 | .90 | | | | | | | | | | | | | | | | | | | | 1.74 |
| *South Carolina.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aiken | Edisto | .23 | | | | | | | | | | .15 | | | | | | | | | | | | | | | | | | | | | 0.38 |
| Allendale‖ | Savannah | .26 | .37 | | | | | | | | | | .31 | | | | | | | | | | .11 | | | | | | | | | | 1.25 |
| Anderson | ...do | .11 | | | | | | | | | | .40 | | | | | | | | | .35 | .03 | | | | | | | | | | | 0.89 |
| Batesburg‖ | Edisto | .22 | .03 | | | | | | | | | | .38 | .07 | | | | | | | | | T. | | | | | | | | | | 0.70 |
| Beaufort | Ocean | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blackville‖ | Edisto | .56 | | | | | | | | | | | .09 | | | | | | | | | .40 | | | | | | | | | | | 1.05 |
| Blairs‖ | Broad | .30 | | | | | | | | | | .15 | .15 | | | | | | | | | | .26 | | | | | | | | | | 0.86 |
| Bowman | Edisto | .88 | | | | | | | | | | .43 | | .08 | | | | | | | T. | | | | | | | | | | | | 1.39 |
| Calhoun Falls‖ | Savannah | 2.35 | .27 | | | | | | | | | .17 | .26 | | | | | | | | | .11 | 2.06 | | | | | | | | | | 5.22 |
| Camden | Wateree | .46 | .40 | | | | | | | | | .04 | .24 | | | | | | | | | | .46 | | | | | | | | | | 1.60 |
| Catawba‖ | Catawba | 1.36 | | | | | | | | | | .24 | .30 | .10 | | | | | | | | | 1.60 | | | | | | | | | | 3.60 |
| Chappells‖ | Saluda | .28 | | | | | | | | | | .08 | | | | | | | | | | | | | | | | | | | | | 0.36 |
| Charleston | Ocean | .61 | | | | | | | | | | .02 | T. | | | | | | | | | | | | | | | | | | | | 0.63 |
| Cheraw‖ | Pedee | .51 | .30 | | | | .03 | | | | T. | .14 | .25 | | | | | | | | | | | | | | | | | | | | 1.23 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 2*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *South Carolina*—Cont'd | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clemson College | Savannah | .24 | | | | | | | | | | .51 | .31 | | | | | | | | .27 | | | | | | | | | | | 1.33 |
| Columbia | Congaree | .33 | | | | | | | | | .03 | .98 | T. | | | | | | | | | .22 | | | | | | | | | | 0.76 |
| Conway‖ | Waccamaw | .56 | .29 | T. | | | | | | | | | .11 | | | | | | | | | | | | | | | | | | | 0.94 |
| Darlington | Pedee | .42 | .55 | .03 | | | .03 | | | | | | .45 | | | | | | | | | | | | | | | | T. | | | | 1.48 |
| Dillon | Little Pedee | .53 | .10 | | | | .01 | | | T. | | .31 | .06 | | | | | | | | T. | | | | | | | | | | | | 1.01 |
| Effingham‖ | Lynches | .65 | 1.30 | | | | | | | | | | .98 | | | | | | | | | | | | | | | | | | | | 2.93 |
| Ferguson‖ | Santee | .18 | .82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.00 |
| Florence‖ | Pedee | | .45 | | | | .05 | | | | | .05 | .38 | | | | | | | | | | | | | | | | | | | | 0.93 |
| Georgetown | Coast | .10 | | | | | | | | | | T. | .17 | | | | | | | T. | T. | | | | | | | | | | | | 0.27 |
| Greenville‖ | Saluda | 1.58 | .02 | .03 | | | | | | | | .35 | .12 | | | | | | | | | .10 | | | | | | | | | | | 2.20 |
| Greenwood‖ | ...do | .72 | .16 | | | | | | | | | | .90 | | | | | | | | | | | | | | | | | | | | 1.12 |
| Heath Springs | Waterce | | | | | | | | | | .18 | .16 | .07 | | | | | | | | | .24 | | | | | | | | | | | 0.65 |
| Jacksonboro | Combahee | 1.49 | .48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.97 |
| Kingstree‖ | Black | | .65 | | | | | | | | | | .15 | | | | | | | | | | | | | | | | | | | | 0.80 |
| Liberty | Savannah | .33 | | | | | | | | | .15 | .85 | | | | | | | | | .50 | | | | | | | | | | | | 1.85 |
| Little Mountain | Saluda | | | | | | | | | | | .40 | | | | | | | | | | .07 | | | | | | | | | | | 0.47 |
| Newberry | ...do | .02 | | | | | | | | | | .35 | .02 | | | | | | | T. | | .01 | | | | | | | | | | | 0.40 |
| Pelser‖ | ...do | 2.66 | .04 | | | | | | | | | .24 | .24 | | | | | | | | | | | | | | | | | | | | 3.18 |
| Pinopolis | Cooper | 1.80 | | | | | | | | | | .01 | .01 | .01 | | | | | | | | | | | | | | | | | | | 1.83 |
| St. George‖ | Edisto | .20 | 1.00 | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | 1.30 |
| St. Matthews‖ | Santee | .18 | .57 | | | | | | | | | | .15 | | | | | | | | | .21 | | | | | | | | | | | 1.11 |
| Saluda | Saluda | .09 | | | | | | | | | | | .52 | .01 | | | | | | | | .06 | T. | | | | | | | | | | 0.68 |
| Santuc | Broad | .08 | | | | | | | | | | | .36 | .04 | | | | | | T. | | T. | | | | T. | | | | | | | 0.48 |
| Smith Mills‖ | Pedee | | 1.02 | | | | | | | | | | .12 | | | | | | | | | | | | | | | | | | | | 1.14 |
| Society Hill | ...do | .59 | .03 | | | .11 | | | | | .16 | .25 | | | | | | | | | | .03 | | | | | | | | | | | 1.17 |
| Spartanburg‖ | Broad | 2.85 | .03 | | | | | | | | | .28 | .38 | | | | | | | | T. | T. | | | | | | | | | | | 3.54 |
| Summerville | Ashley | 1.45 | .18 | | .03 | | | | | | | T. | .06 | .02 | | | | | | | T. | | | | | | | | | | | | 1.74 |
| Trenton | Edisto | .05 | | | | | | | | | | .23 | | | | | | | | | | T. | | | | | T. | | | | | | 0.28 |
| Trial | Santee | .80 | | | | | | | | | | .18 | T. | | | | | | | | | | | | | | | | | | | | 0.98 |
| Walhalla | Savannah | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Walterboro | Ashepoo | 1.20 | .01 | | | | | | | | | .04 | .02 | | | | | | | | | | | | | | | | | | | | 1.27 |
| Winnsboro | Broad | | | | | | | | | | | 1.50 | T. | | | | | | | | | .60 | | | | | .70 | | | | | .50 | 3.30 |
| Winthrop College | Catawba | .40 | T. | | | | | | | | | .32 | .21 | | | | | | | | | T. | | | | | | | | | | | 0.93 |
| Yemassee‖ | Combahee | .38 | .85 | | | | | | | | | | .04 | | | | | | | | | | | | | | | | | | | | 1.27 |
| *Georgia.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abbeville‖ | Ocmulgee | .62 | .42 | .22 | | | | | | | | * | .34 | | | | | | | | | | | | | | | | | | | | 1.60 |
| Adairsville‖ | Coosa | .20 | .07 | | | | | | | .03 | .21 | .38 | T. | | | | | | | T. | | | | | | | | | | | | | 0.89 |
| Albany‖ | Flint | .50 | .44 | .02 | | | | | | | | .10 | .40 | | | | | | | | | T. | | | | | | | | | | | 1.46 |
| Allapaha‖ | Allapaha | 1.35 | 1.26 | .11 | | | | | | | | | .15 | T. | | | | | | | | * | .14 | | | | | | | | | | 3.01 |
| Americus‖ | Flint | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Athens‖ | Oconee | 3.62 | | | | | | | * | .03 | * | .40 | .13 | | | | | | | | | | | | | | | | | | | | 4.18 |
| Atlanta | Chattahoochee | .80 | | | | | | | | .08 | .24 | .91 | | | | | | | T. | | | T. | | T. | | | | | | | | | 2.03 |
| Augusta | Savannah | .05 | T. | | | | | | | | | .14 | | | | | | | | | | .50 | | | | | | | T. | | | | 0.69 |
| Bainbridge‖ | Flint | .95 | .74 | | | | | | | | | .22 | .34 | | | | | | | | | | .44 | | | | | | | | | | 2.69 |
| Barnesville | ...do | | .10 | | | | | | | | | .57 | | | | | | | | | | .27 | .01 | | | | | | | | | | 0.95 |
| Blakely | Chattahoochee | .64 | .03 | | | | | | | | | .46 | | | | | | | | | | T. | | | | .04 | | | | | | | 1.17 |
| Brunswick | Altamaha | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Butler‖ | Flint | .55 | | | | | | | | | | * | .37 | | | | | | | | | * | .25 | | | | | | | | | | 1.17 |
| Camak‖ | Savannah | .05 | | | | | | | | | | * | .56 | | | | | | | | | * | .38 | | | | | | | | | | 0.99 |
| Canton | Coosa | | | | | | | | | | .10 | .45 | | | | | | | | T. | | | | | | | | | | | | | 0.55 |
| Carlton‖ | Savannah | 2.18 | | | | | | | | | * | .28 | .26 | | | | | | | | | | | | | | | | | | | | 2.72 |
| Carrollton | Chattahoochee | .85 | .13 | | | | | | | | .30 | .35 | | | | | | | .07 | | | | | | | | T. | | | | | | 1.70 |
| Clayton | Savannah | .95 | | | | | | | | | .29 | .59 | | | | | | | | .28 | .40 | | | | | | | | | | | | 2.51 |
| Columbus‖ | Chattahoochee | 1.88 | .07 | | | | | | | | | .40 | .17 | | | | | | | | | T. | T. | | | | | | | | | | 2.52 |
| Covington‖ | Ocmulgee | 3.30 | | | | | | | | | * | .25 | .23 | | | | | | | | | | | | | | | | | | | | 3.78 |
| Cuthbert‖ | Chattahoochee | .54 | | | | | | | | | | .35 | | | | | | | | | | | | | | | | | | | | | 0.89 |
| Dahlonega | ...do | .42 | | | | | | | | | .33 | .39 | | | | | | | | | .05 | .19 | | | | | | | | | | | 1.38 |
| Diamond | Tennessee | .22 | .04 | | | | | | | * | .71 | .30 | | | | | | | | | .08 | .31 | | | | | | | | | | | 1.66 |
| Douglas | Satilla | 2.62 | 1.70 | | | | | | | | | .13 | .12 | | | | | | | | | .14 | .07 | | .05 | | | | | | | | 4.83 |
| Dublin‖ | Oconee | .48 | .26 | T. | | | | | | | | * | .20 | | | | | | | | | | | | | | | | | | | | 0.94 |
| Dudley | ...do | .17 | .04 | | | | | | | | | .20 | | | | | | | | | | .02 | | | | | | | | | | | 0.43 |
| Eastman‖ | Ocmulgee | .53 | .41 | | | | | | | | * | .07 | | | | | | | * | T. | | | | | | | | | | | | | 1.01 |
| Eatonton | Oconee | | | | | | | | | | | .57 | | | | | | | | | | .30 | .09 | | | | | | | | | | 0.96 |
| Elberton | Savannah | .15 | | | | | | | | | | .53 | .08 | | | | | | | | .22 | | | | | | | | | | | | 0.97 |
| Experiment | Chattahoochee | .03 | .14 | | | | | | | | | .39 | | | | | | | | | | .12 | | | | | | | | | | | 0.68 |
| Fort Gaines‖ | ...do | .45 | .40 | | | | | | | | | .37 | .05 | | | | | | | | | | | | | | | | | | | | 1.27 |
| Gainesville‖ | ...do | .33 | | | | | | | | | * | .46 | .23 | | | | | | | | | | | | | | | | | | | | 1.02 |
| Gillsville | Oconee | .37 | | | | | | | | | | .66 | | | | | | | | | | | | | | | | | | | | | 1.03 |
| Glennville‖ | Altamaha | 1.02 | T. | | | | | | | | * | .21 | | | | | | | * | .07 | * | .01 | | | | | | | | | | | 2.07 |
| Gore | Coosa | .04 | .07 | | | | | | | T. | .70 | .28 | | | | | | | T. | | | .11 | | | | | | | | | | | 1.20 |
| Greensboro‖ | Oconee | .78 | .12 | | | | | | | T. | * | .24 | .42 | | | | | | | | | * | .76 | | | | | | | | | | 2.32 |
| Griffin‖ | Chattahoochee | 1.45 | .10 | | | | | | | | | .25 | .22 | | | | | | | | | .08 | T. | | | | | | | | | | 2.10 |
| Harrison | Ogeechee | .16 | .05 | | | | | | | | | .12 | | | | | | | | | | .04 | | | | | | | | | | | 0.37 |
| Hartwell | Savannah | .07 | | | | | | | | | | .42 | | | | | | | | .45 | .33 | | | | | | | | | | | | 1.27 |
| Hawkinsville‖ | Ocmulgee | .34 | .18 | | | | | | | | | T. | T. | T. | | | | | | | | | | | | | | | | | | | 0.52 |
| Helena | ...do | .76 | .04 | T. | | | | | | | | .12 | .02 | | | | | | | | | T. | | | | | | | | | | | 0.94 |
| La Fayette | Tennessee | | .04 | | | | | | | | .35 | .11 | | | | | | | | | .07 | | | | | | | | | | | | 0.57 |
| Lisbon | Savannah | .05 | .03 | | | | | | | | * | .25 | T. | | | | | | | | .18 | .15 | | | | | | | | | | | 0.66 |
| Lost Mountain | Chattahoochee | .75 | | | | | | | | | .05 | .40 | | | | | | | | | | | | | | | | | | | | | 1.20 |
| Louisville | Ogeechee | .49 | | | | | | | | | | | | | | | | | | | | .25 | | | | | | | | | | | 0.74 |
| Lumber City‖ | Ocmulgee | .84 | 1.12 | .32 | | | | | | | | * | .22 | | | | | | | | | * | .46 | | | | | | | | | | 2.96 |
| Lumpkin‖ | Chattahoochee | .64 | | | | | | | | | | .43 | | | | | | | | | | T. | | | | | | | | | | | 1.07 |
| Macon | Ocmulgee | T. | T. | | | | | | | | | .26 | | | | | | | T. | | T. | .06 | | | | | | | | | | | 0.32 |
| Marshallville‖ | Flint | .05 | .08 | | | | | | | | | .41 | .03 | | | | | | | | | T. | T. | | | | | | | | | | 0.57 |
| Mauzy | Suwanee | 2.54 | | | | | | | | | | .27 | | | | | | | | | | .27 | | | | | | | | | | | 3.02 |
| Milledgeville‖ | Oconee | .10 | T. | | | | | | | | * | .11 | .20 | | | | | | | | | * | .62 | | | | | | | | | | 1.03 |
| Millen‖ | Ogeechee | .33 | .70 | | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | 1.33 |
| Montezuma‖ | Flint | .12 | .10 | | | | | | | | * | .28 | .18 | | | | | | | | | .12 | | | | | | | | | | | 0.80 |
| Monticello‖ | Ocmulgee | 1.20 | .07 | | | | | | | | | .40 | .26 | | | | | | | | | | .16 | | | | | | | | | | 2.09 |
| Morgan | Flint | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Newnan‖ | Chattahoochee | .70 | .11 | | | | | | | | * | .86 | .14 | | | | | | | | * | .10 | | | | | | | | | | | 1.91 |
| Oakdale‖ | ...do | .05 | | | | | | | | | | .73 | | | | | | | | | | | | | | | | | | | | | 0.78 |
| Point Peter | Savannah | .13 | | | | | | | | | * | .55 | | | | | | | | | .30 | | | | | | | | | | | | 0.98 |
| Poulan | Suwanee | .81 | | | | | | | | | | .50 | | | | | | | | | | .01 | | | | | | | | | | | 1.32 |
| Putnam | Flint | | | | | | | | | | | .40 | | | | | | | | | | | | | | | | | | | | | 0.40 |
| Quitman‖ | Suwanee | 1.55 | 1.07 | | | | | | | | | * | .41 | | | | | | | | | | | | | | | | | | | | 3.03 |
| Ramsey | Coosa | .32 | .10 | | | | | | | | .66 | .14 | | | | | | | | | .31 | .10 | | | | | | | | | | | 1.63 |
| Resaca‖ | ...do | T. | .15 | | | | | | | * | .12 | .82 | | | | | | | T. | | T. | | | | | | | | | | | | 1.09 |
| Rome‖ | ...do | .30 | .20 | | | | | | | .18 | .40 | .52 | | | | | | | | * | .20 | .02 | | | | | | | | | | | 1.82 |
| St. George | St. Marys | .15 | 1.56 | .13 | .04 | | | | | | | .80 | | .02 | | | | | | | T. | .15 | | | .03 | | | | | | | | 2.88 |
| St. Marys | ...do | .86 | .23 | | | | | | | | | .74 | | | | | | | | | | | T. | | | | | | | | | | 1.83 |
| Savannah | Savannah | 1.91 | | | | | | | | | | .07 | | | | | | | | | | | .18 | | | | | | | | | | 2.16 |
| Statesboro‖ | Ogeechee | .87 | | | | | | | | | | .20 | | | | | | | | | | .26 | .03 | | | | | | | | | | 1.38 |
| Talbotton | Chattahoochee | | .15 | | | | | | | | | .50 | | | | | | | | | | | .14 | | | | | | | | | | 0.79 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 2*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Georgia*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tallapoosa‖ | Coosa | | | | | | | | | | | 1.00 | | | | | | | | | | | | | | | | | | | 1.00 |
| Thomasville | Ocklockonee | 2.56 | T. | | | | | | | | | .35 | | | | | | | | | | .11 | | | | | | | | | 3.02 |
| Toccoa‖ | Savannah | 1.65 | .32 | | | | | | | | | .80 | .23 | | | | | | | | .28 | | | | | | | | | | 3.28 |
| Valdosta‖ | Suwanee | 1.13 | .95 | .02 | | | | | | | | T. | .45 | | | | | | | | | | | | | | | | | | 2.55 |
| Valona | Ogeechee | 1.50 | T. | | | | | | | | | .42 | | | | | | | | | | T. | | | | | | | | | 1.92 |
| Washington‖ | Savannah | .28 | .05 | | | | | | * | .06 | * | .12 | .22 | | | | | | | * | .28 | * | .22 | | | | | | | | 1.23 |
| Waycross‖ | Satilla | 1.17 | 1.30 | .02 | | | | | | | | * | .48 | | | | | | | | | * | .56 | | | | | | | | 3.53 |
| Waynesboro‖ | Savannah | .50 | .34 | | | | | | | | | .12 | | | | | | | | * | .47 | | | | | | | | | | 1.43 |
| West Point‖ | Chattahoochee | .60 | | | | | | | | | * | .80 | .26 | | | | | | * | T. | | | * | T. | | | | | | | 1.66 |
| Woodbury‖ | Flint | 1.85 | | | | | | | | | | .60 | .15 | | | | | | | | | | | | | | | | | | 2.60 |
| *Florida.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apalachicola | Coast | 1.08 | T. | .28 | | | | | | | | .20 | | | | | | | | | | T. | | | | | | | | | 1.56 |
| Arcadia | Peace Creek | | .06 | .20 | .35 | .02 | | | | | | | | | | | | | | | | | .06 | .01 | .02 | .08 | | | | | 0.80 |
| Archer | Waccasassa | .55 | T. | .45 | | | | | | | | .10 | | | | | | | | | | .02 | .15 | | | | | | | | 1.27 |
| Avon Park | Kissimmee | | | .74 | 1.19 | T. | | | | | | | | | | | | | | | | | .44 | | .03 | | | | | | 2.40 |
| Bartow‖ | Peace Creek | | | .28 | .21 | .40 | | | | | | | | | | | | | | | | | | | 1.28 | .02 | | | | | 2.19 |
| Blountstown‖ | Apalachicola | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bonifay | Choctawhatchee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brooksville | Withlacoochee | | .15 | .56 | | | | | | | | | | | | | | | | | | | .76 | | | | | | | | 1.47 |
| Carrabelle | Coast | 1.22 | .70 | | | | | | .20 | | | | | | | | | | | | | | | | | | | | | | 2.12 |
| Cedar Keys | ...do | .13 | .09 | .10 | | .10 | | | | | | | .01 | | | | | | | | | | | .10 | | | | | | | | 0.53 |
| Clermont | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| De Funiak Springs | Choctawhatchee | .35 | .02 | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | 0.37 |
| De Land | St. Johns | | .13 | .37 | .63 | .07 | | | | | | | | | | | | | | | | | .06 | 1.52 | T. | T. | | | | | 2.78 |
| Eustis‖ | Lake | .44 | * | * | * | .67 | | | | | | | | | | | | | | | | | | .19 | .08 | | | | | | 1.38 |
| Federal Point | St. Johns | .36 | .04 | 1.26 | .06 | | | | | | | | .12 | | | | | | | | | | .11 | | | | | | | | 1.95 |
| Fenholloway | Fenholloway | | | | | | | | | | | .34 | | | | | | | | | | | | | | | | | | | 0.34 |
| Fernandina | Coast | 1.66 | .09 | .14 | | | | | | | | .40 | | | | | | | | | | | | | | | | | | | 2.29 |
| Fort Meade | Peace Creek | | | .36 | .69 | | | | | | | | | | | | | | | | | | T. | .37 | .05 | T. | | | | | 1.47 |
| Fort Myers | Caloosahatchee | | | .31 | .32 | | | | | | | | T. | | T. | | | | | | | | | T. | .10 | | | | | | 0.73 |
| Fort Pierce | Indian | | | | | .65 | | | | | | | | | | | | | | | | | | .63 | | | | | | | 1.28 |
| Gainesville‖ | Lake | 1.04 | .20 | .41 | .20 | | | | | | | | .46 | | | | | | | | | | .36 | | | T. | | | | | 2.67 |
| Grasmere | ...do | T. | | .50 | .33 | | | | | | | | | | | | | | | | | | .03 | .28 | .23 | T. | | | | | 1.37 |
| Hilliard | Nassau | 1.10 | T. | .10 | | | | | | | | .90 | | | | | | | | | | | .10 | | | | | | | | 2.20 |
| Huntington | St. Johns | .30 | * | * | 1.30 | | | | | | | | | | | | | | | | | | .01 | | | | | | | | 1.61 |
| Hypoluxo | Lake | | .27 | .50 | .70 | .58 | .39 | | | | | | | | | .54 | | | | | | | | .43 | .21 | | | | | | 3.62 |
| Inverness‖ | Withlacoochee | | | .38 | .21 | | | | | | | | | | | | | | | | | | | .08 | .03 | | | | | | 0.70 |
| Jacksonville | St. Johns | .64 | .17 | .17 | | | | | | | | .89 | | | | | | | | | | .02 | | | | | | | | | 1.89 |
| Jasper‖ | Suwanee | 1.46 | 1.73 | | | | | | | | | .47 | | | | | | | | | | | | | | | | | | | 3.66 |
| Johnstown | ...do | .18 | .13 | .37 | | | | | | | | 1.30 | | | | | | | | | | | .17 | .02 | .02 | | | | | | 2.19 |
| Jupiter | Coast | T. | .34 | .86 | 2.13 | 2.87 | .11 | | | | | T. | | | | .03 | | | | | | | .03 | | .08 | | | | | | 6.45 |
| Key West | ...do | | | .33 | | | T. | | | | | | | | | | | | | | | | | | | | | | | .02 | T. | 0.35 |
| Kissimmee | Kissimmee | | .44 | .07 | .80 | | | | | | | | | | | | | | | | | | | .13 | T. | .08 | | | | | 1.52 |
| Lake City | Suwanee | .98 | .40 | .11 | | | | | | | | .69 | T. | | | | | | | | | | .21 | | | | | | | | 2.39 |
| Live Oak‖ | ...do | 1.71 | 1.61 | .31 | | | | | | | | | .55 | | | | | | | | | | .15 | | | | | | | | 4.33 |
| Macclenny | St. Marys | .66 | .12 | .20 | | | | | | | | | | | | | | | | | | | .65 | | | | | | | | 1.63 |
| Madison‖ | Suwanee | .92 | 1.42 | .03 | T. | | | | | | | .03 | 1.26 | | | | | | | | | | .08 | | | | | | | | 3.74 |
| Malabar | Indian | | .07 | .51 | .26 | .64 | | | | | | .16 | | | | | | | | .07 | | | | .07 | | | | | | | 1.78 |
| Manatee | Manatee | | | | .45 | | | | | | | | | | | | | | | | | | | | .05 | | | | | | 0.50 |
| Marianna‖ | Apalachicola | | .82 | .30 | | | | | | | .40 | .10 | | | | | | | | | | .60 | | | | | | | | | 2.22 |
| Merritta Island | Indan | T. | .26 | .43 | .42 | | | T. | | | | | | | | | | | | | | | .93 | | | | | | | | 2.04 |
| Miami | Coast | T. | T. | T. | T. | T. | T. | | | | | .32 | | | | | | | | T. | | | | .35 | T. | | | | T. | | 0.67 |
| Middleburg | St. Johns | .65 | | .70 | | | | | | | | | | | | | | | | | | | 1.05 | | | | | | | | 2.40 |
| Milligan | Yellow | .67 | | | | | | | | | T | .54 | | | | | | | | | | .27 | | | | | | | | | 1.48 |
| Molino | Escambia | 1.15 | | | | | | | | | * | .33 | | | | | | | | | | | | | | | | | | | 1.48 |
| Monticello | Aucilla | 2.10 | | .41 | | | | | | | | .58 | | | | | | | | | | | | | | | | | | | 3.09 |
| Mount Pleasant | Apalachicola | 1.50 | .66 | | | | | | | | | .43 | | | | | | | | | | .04 | | | | | | | | | 2.63 |
| Newport | St. Marks | 1.96 | 1.55 | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | 3.51 |
| New Smyrna | Coast | | .02 | .46 | 1.34 | .13 | | | | | | | | | | | | | | | | | | | | | | | | | 1.95 |
| Ocala‖ | St. Johns | | T. | .33 | T. | | | | | | | | | | | | | | | | T. | | .06 | T. | .63 | | | | | | 1.02 |
| Orange City | ...do | | .10 | .99 | .18 | | | | | | | | | | | | | | | | | | .81 | | | | | | | | 2.08 |
| Orlando | ...do | | .90 | .10 | 1.50 | | | | | | | | | | | | | | | | | | | .09 | .06 | T. | | | | | 2.65 |
| Pensacola | Coast | 1.48 | | | | | | | | | .09 | .22 | | | | | | | | | | .03 | | | | | | | | | 1.82 |
| Plant City | Hillsboro | | | | 1.15 | | | | | | | | | | | | | | | | | | .72 | | | | | | | | 1.87 |
| Rockledge | Indian | | .16 | .63 | .46 | .05 | | | | | | | | | | | | | | | | | .50 | .03 | | | | | | | 1.83 |
| Rockwell | Withlacoochee | .20 | T. | .50 | | | | | | | | | | | | | | | | | | | | T. | T. | | | | | | 0.70 |
| St. Andrew | Coast | 1.52 | .01 | | | | | | | | | .18 | | | | | | | | | | .08 | | | | | | | | | 1.79 |
| St. Augustine | ...do | T. | .15 | 1.47 | | | | | | | | | .11 | | | | | | | | | | | .05 | | | | | | | 1.78 |
| Sand Key | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| St. Leo | Withlacoochee | | .02 | .31 | .64 | T. | | | | | | | | | | | | | | | | | .16 | .30 | .25 | | | | | | 1.68 |
| Satsuma Heights | St. Johns | .13 | .19 | .75 | .05 | | | | | | | .11 | | | | | | | | | | .06 | T. | T. | | | | | | | 1.29 |
| Switzerland | ...do | .30 | .50 | .25 | | | | | .23 | .25 | | | | | | | | | | | | .22 | .27 | | | | | | | | 2.02 |
| Tallahassee‖ | Ocklocknee | 2.40 | 1.20 | .05 | | | | | | | | | .30 | | | | | | | | | | .02 | | | | | | | | 3.97 |
| Tampa | Coast | T. | T. | .17 | 37 | T. | | | | | | | | | | | | | | .04 | | | | .03 | .07 | | | | | | 0.58 |
| Tarpon Springs | ...do | .12 | .06 | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.93 |
| Titusville | Indian | .13 | | 1.60 | 6 | | | | | | | | | | | | | | | | | | .40 | | | | | | | | 2.19 |
| Wausau | Choctawhatchee | .55 | 1.00 | T. | | | | | | .60 | | | | | | | | | | | .93 | | | | | | | | | | 3.08 |
| *Alabama.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alaga‖ | Chattahoochee | .32 | .68 | .30 | | | | | | | | .12 | .26 | | | | | | | | | | T. | | | | | | | | 1.68 |
| Anniston | Coosa | .53 | | | | | | | | | .46 | .08 | | | | | | | .02 | | T. | | | T. | | | | | | | 1.09 |
| Ashville | ...do | .08 | .43 | | | | | | | | 1.00 | .20 | | | | | | | T. | | T. | .04 | | .02 | | | | | | | 1.77 |
| Auburn | Tallapoosa | .06 | | | | | | | | | .18 | .60 | | | | | | | .14 | | | T. | | | | | | | | | 0.98 |
| Benton‖ | Alabama | T. | .44 | | | | | | | | | .64 | | | | | | | | | | | | | | | | | | | 1.08 |
| Bermuda | Escambia | .73 | .10 | | | | | | | | .81 | | | | | | | | T. | | | T. | | | | | | | | | 1.64 |
| Birmingham | Black Warrior | .09 | | | | | | | | | .45 | | | | | | | | | T. | .01 | | | | | | | | | | 0.55 |
| Calera‖ | Coosa | .21 | .05 | | | | | | | | .01 | | | | | | | | | | | .34 | | | | .18 | | | | | 0.79 |
| Camp Hill | Tallapoosa | .87 | | | | | | | | | .03 | | | | | | | | | | | | | | | | | | | | 0.90 |
| Cedar Bluff | Coosa | | | | | | | | .20 | .35 | .65 | | | | | | | | | | | | | | | | | | | | 1.20 |
| Citronelle | Alabama | .25 | T. | | | | | | | | .97 | .36 | T. | | | | | | | | | T. | | .02 | .01 | | | | | | 1.61 |
| Clanton‖ | Coosa | .12 | .15 | | | | | | | | | .36 | | | | | | | | | | .02 | | | | | | | | | 0.65 |
| Cochrane‖ | Tombigbee | | .10 | | | | | | | | .10 | .32 | | | | | | | | | | | | | | | | | | | 0.52 |
| Cordova | Black Warrior | .22 | | | | | | | | | .48 | | | | | | | | T. | | | | | | | | | | | | 0.70 |
| Cullman | ...do | .21 | | | | | | | .17 | .58 | T. | | | | | | | | .05 | | | | | T. | | | | | | | 1.01 |
| Dadeville‖ | Tallapoosa | 1.08 | | | | | | | | | | .43 | | | | | | | | T. | | .04 | | | | .14 | | | | | 1.69 |
| Daphne | Coast | 2.85 | | | | | | | | | .51 | | | | | | | | | | | T. | | | | | | | | | 3.36 |
| Demopolis‖ | Tombigbee | | | | | | | | | .10 | .08 | | | | | | | | | | | | | | | | | | | | 0.18 |
| Eufaula‖ | Chattahoochee | 1.10 | .80 | | | | | | | | | .40 | .18 | | | | | | | | | T. | .10 | | | | | | | | 2.58 |
| Evergreen‖ | Escambia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fayette | Tombigbee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flomaton | Escambia | | | | | | | | | | | .46 | | | | | | | | | | .13 | | | | | | | | | 0.64 |
| Fort Deposit‖ | ...do | .27 | .32 | | | | | | | | | .43 | | | | | | | | | | | | | | | | | | | 1.02 |
| Gadsden‖ | Coosa | .38 | .44 | | | | | | | | .34 | .58 | | | | | | | | | | | | | | | | | | | 1.74 |
| Goodwater‖ | ...do | .20 | | .92 | | | | | | | | 1.05 | | | | | | | | T. | | | | | | | | | | | 2.17 |
| Greensboro‖ | Black Warrior | | | | | | | | | | .18 | | | | | | | | | | | | | | | | | | | | 0.18 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 2*—Continued.

| Stations‡ | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Alabama*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Greenville‖ | Escambia | .43 | .26 | T. | | | | | | .20 | | | | | | | | | | | | | | | | | | | | | | | 0.95 |
| Hamilton | Tombigbee | | | | | | | | | | .58 | | | | | | | | | | | .12 | | | | | | | | | | | 0.70 |
| Highland Home | Escambia | .43 | .04 | | | | | | | | | .57 | | | | | | | | | | | | | T. | | | | | | | | 1.04 |
| Livingston‖ | Tombigbee | | | | | | | | | | .43 | .10 | | | | | | | | | | | | | | | | | | | | | 0.53 |
| Lock No. 4 | Coosa | .30 | | | | | | | | | .15 | .20 | | | | | | | | | | .08 | | | | | | | | | | | 0.73 |
| Lucy | Chattahoochee | 1.15 | T. | | | | | | | | | .40 | | | | | | | | | | .02 | | | | | | | | | | | 1.57 |
| Maple Grove | Coosa | | .80 | | | | | | | .12 | .29 | .70 | | | | | | | | T. | T. | .05 | | T. | T. | T. | | | | | | | 1.96 |
| Mentone‖ | ...do | T. | .45 | | | | | | | | T. | .65 | | | | | | | | | | | | | | | | | | | | | 1.10 |
| Milstead‖ | Tallapoosa | .76 | .08 | | | | | | | | | .56 | | | | | | | | | | | .10 | | | | | | | | | | 1.50 |
| Mobile | Coast | 1.31 | .01 | | | | | | | | .52 | .07 | | | | | | | T. | | | T. | | T. | | .02 | | | | | | | 1.93 |
| Montgomery | Alabama | .68 | | | | | | | | | .13 | .04 | | | | | | | T. | | T. | T. | | | | | | | | | | | 0.85 |
| Newbern | Black Warrior | .19 | | | | | | | | | .25 | | | | | | | | | | | | | | | | | | | | | | 0.44 |
| Oneonta | ...do | .03 | .10 | | | | | | | | 1.50 | .12 | | | | | | | T. | | T. | .03 | | | | | | | | | | | 1.78 |
| Opelika‖ | Tallapoosa | .14 | | | | | | | | | | .85 | .06 | | | | | | | .09 | | .07 | | | | | | | | | | | 1.21 |
| Ozark‖ | Coast | .35 | .45 | | | | | | | | | .50 | | | | | | | | | | | | | | | | | | | | | 1.30 |
| Prattville | Alabama | 1.15 | | | | | | | | | 1.10 | | | | | | | | | | | | | | | | | | | | | | 2.25 |
| Pushmataha‖ | Tombigbee | | | | | | | | | | .54 | .13 | | | | | | | T. | | | | | | | | | | | | | | 0.67 |
| Selma‖ | Alabama | .62 | .34 | | | | | | | | | .86 | | | | | | | | | | T. | | | | T. | | | | | | | 1.82 |
| Spring Hill | Coast | 1.22 | T. | | | | | | | | T. | .54 | | | | | | | | | | | | | | | | | | | | | 1.76 |
| Talladega | Coosa | .18 | | | | | | | | | .21 | .25 | | | | | | | .01 | | | | | | | | | | | | | | 0.65 |
| Tallassee‖ | Tallapoosa | 1.14 | .04 | | | | | | | | | .71 | | | | | | | | | | | | | | .07 | | | | | | | 1.96 |
| Thomasville‖ | Tombigbee | .05 | .30 | | | | | | | | | .38 | | | | | | | | | | T. | | | | | | | | | | | 0.73 |
| Troy | Escambia | .62 | | .10 | | | | | | | | .67 | | | | | | | | | | | | | 1.60 | T. | | | | | | | 2.99 |
| Tuscaloosa‖ | Black Warrior | .03 | .04 | | | | | | | | .13 | .14 | | | | | | | | | | | .07 | | | | | | | | | | 0.43 |
| Tuskegee | Tallapoosa | | | | | | | | | | | .52 | | | | | | | | | T. | | | | | | | | | | | | 0.52 |
| Union Springs‖ | ...do | .20 | .35 | | | | | | | | | .87 | | | | | | | | T. | | | T. | | T. | T. | | | | | | | 1.42 |
| Uniontown | Black Warrior | .10 | | | | | | | | .08 | .06 | | | | | | | | T. | | | | | | | | | | | | | | 0.24 |
| Valley Head | Coosa | T. | .25 | | | | | | | T. | .60 | .04 | | | | | | | T. | | | | | | | | | | | | | | 0.89 |
| Wetumpka‖ | ...do | 1.80 | T. | | | | | | | | | .51 | | | | | | | | | | | | | | | | | | | | | 2.31 |
| *Mississippi.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aberdeen‖ | Tombigbee | | | | | | | | | | .08 | .62 | | | | | | | | | .04 | | | | | | | | | | | | 0.74 |
| Agricultural College | ...do | | .35 | | | | | | | | .58 | | | | | | | | | | | | | | | | | | | | | | 0.93 |
| Bay St. Louis | Coast | .16 | T. | | | | | | | | .99 | .29 | | | | | | | | | | | | | | | | | | | | | 1.44 |
| Biloxi | ...do | .62 | | | | | | | | | .35 | .53 | | | | | | | | | | | | | | | | | | | | | 1.50 |
| Booneville | Tombigbee | | | | | | | | | .04 | .13 | | | | | | | | | | | .01 | | | | | | | | | | | 0.18 |
| Brookhaven‖ | Pearl | | | | | | | | | | .20 | .21 | | | | | | | | | T. | | .24 | | | | | | | | | | 0.65 |
| Columbia‖ | ...do | | | | | | | | | | .12 | .20 | | | | | | | | | | | .06 | | | | | | | | T. | | 0.38 |
| Columbus‖ | Tombigbee | | .20 | | | | | | | | .07 | .46 | | | | | | | T. | | | .08 | | | | T. | | | | | | | 0.81 |
| Crystal Springs‖ | Pearl | | | | | | | | | | | .41 | | | | | | | | | | | .63 | | | | | | | | | | 1.04 |
| Edinburg | ...do | T. | .02 | | | | | | | | .40 | | | | | | | | .05 | | | | | | | | | | | | | | 0.47 |
| Enterprise‖ | Chickasawhay | .04 | .38 | | | | | | | | .20 | .24 | | | | | | | T. | | | | .06 | | | T. | | | | | | | 0.92 |
| Fulton‖ | Tombigbee | | T. | | | | | | | | .36 | | | | | | | | | T. | | | | | T. | | | | | | | | 0.36 |
| Hattiesburg‖ | Leaf | | .14 | | | | | | | | | .18 | | | | | | | | | | | | | | .02 | | | | | | | 0.94 |
| Hazlehurst‖ | Pearl | .06 | | | | | | | | | T. | | | | | | | | | | | | .47 | | | | | | | | | | 0.53 |
| Jackson | ...do | T. | | | | | | | | | 1.24 | | | | | | | | .02 | | | .45 | | | | | | | | | | | 1.71 |
| Lake‖ | ...do | .04 | T. | | | | | | | | .32 | .31 | | | | | | | T. | | | T. | | | | | | | | | | | 0.67 |
| Lake Como | Leaf | | | | | | | | | | .90 | | | | | | | | | | | .85 | | | | | | | | | | | 1.75 |
| Laurel | ...do | .12 | T. | | | | | | | | .65 | .08 | | | | | | | T. | | | T. | | | T. | T. | | | | | | | 0.85 |
| Leakesville‖ | Chickasawhay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Louisville | Pearl | | | | | | | | | | .23 | | | | | | | | | | | | | | | | | | | | | | 0.23 |
| McNeill | ...do | | | | | | | | | | .88 | .09 | | | | | | | | | | | | | | | | | | | | | 0.97 |
| Macon‖ | Tombigbee | | | | | | | | | | .08 | .40 | | | | | | | | | | | | | | | | | | | | | 0.48 |
| Magnolia | Pearl | .02 | | | | | | | | | .88 | | | | | | | | | | | .01 | | | | | | | | | T. | | 0.91 |
| Meridian | Chickasawhay | .03 | T. | | | | | | | | .80 | | | | | | | | .03 | | | | | | | | | | | | | | 0.86 |
| Merrill‖ | Pascagoula | .20 | .08 | | | | | | | | | .72 | | | | | | | | | | | | | | | | | | | | | 1.00 |
| Monticello | Pearl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Okolona‖ | Tombigbee | | T. | | | | | | | | | .30 | | | | | | | | | | .07 | | | | | | | | | | | 0.37 |
| Pascagoula | Coast | 2.20 | .04 | | | | | | | | 1.08 | | | | | | | | | | | | | | | | | | | | | | 3.32 |
| Pearlington | Pearl | .27 | | | | | | | | | 1.33 | .29 | | | | | | | | | | | | | | | | | | | .04 | | 1.93 |
| Porterville | Tombigbee | .40 | | | | | | | | | .75 | | | | | | | | | | | T. | | | | | | | | | | | 1.15 |
| Shubuta‖ | Chickasawhay | | .04 | | | | | | | | .18 | .14 | | | | | | | .02 | | | | | | | | | | | | | | 0.38 |
| Waynesboro‖ | ...do | | .10 | | | | | | | | .08 | 1.05 | | | | | | | T. | T. | | | | | | | | | | | | | 1.23 |
| Woodland | Tombigbee | .60 | | | | | | | | | .29 | | | | | | | | | | | .07 | | | | | | | | | | | 0.96 |
| *Louisiana.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pearl River | Pearl | .01 | T. | | | | | | | | | .80 | | | | | | | | | | | | | .01 | | | | | | .04 | | 0.86 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 2, South Atlantic and east Gulf States.*

| Date. | Virginia. | | | | | | | | | | | | North Carolina. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Lynchburg. | | Norfolk. | | Richmond. | | Saxe. | | Charlotte. | | Edenton. | | Fayetteville. | | Hatteras. | | Newbern.‖ | | Raleigh. | | Reidsville. | | Salisbury. | | Wilmington. | | Charleston, S. C. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 69 | 57 | 69 | 54 | 64 | 55 | 65 | 57 | 71 | 56 | 72 | 55 | 67 | 57 | 64 | 56 | 66 | 55 | 72 | 61 | 74 | 54 | 67 | 59 | 64 | 57 | 64 | 56 |
| 2 | 69 | 49 | 70 | 49 | 68 | 51 | 73 | 55 | 75 | 51 | 70 | 56 | 74 | 52 | 70 | 53 | 71 | 54 | 71 | 57 | 72 | 57 | 69 | 53 | 71 | 56 | 69 | 56 |
| 3 | 69 | 42 | 66 | 42 | 66 | 43 | 72 | 41 | 72 | 46 | 67 | 41 | 72 | 37 | 65 | 50 | 67 | 54 | 68 | 44 | 71 | 46 | 70 | 46 | 69 | 52 | 69 | 52 |
| 4 | 67 | 38 | 67 | 42 | 69 | 46 | 69 | 42 | 71 | 50 | 69 | 49 | 73 | 46 | 67 | 53 | 68 | 54 | 69 | 46 | 71 | 50 | 70 | 46 | 70 | 53 | 70 | 53 |
| 5 | 67 | 45 | 64 | 46 | 64 | 46 | 67 | 42 | 70 | 46 | 68 | 46 | 72 | 46 | 66 | 50 | 64 | 51 | 66 | 46 | 68 | 46 | 68 | 46 | 68 | 46 | 68 | 52 |
| 6 | 75 | 53 | 66 | 54 | 72 | 48 | 73 | 48 | 72 | 53 | 70 | 52 | 77 | 53 | 68 | 54 | 69 | 54 | 72 | 48 | 73 | 53 | 72 | 53 | 69 | 54 | 69 | 54 |
| 7 | 84 | 46 | 84 | 46 | 83 | 46 | 86 | 46 | 86 | 53 | 82 | 55 | 78 | 53 | 72 | 55 | 73 | 55 | 78 | 53 | 78 | 53 | 78 | 53 | 73 | 55 | 73 | 55 |
| 8 | 82 | 42 | 82 | 43 | 81 | 43 | 82 | 43 | 84 | 44 | 82 | 44 | 82 | 44 | 72 | 46 | 74 | 46 | 82 | 43 | 82 | 44 | 82 | 44 | 78 | 46 | 78 | 46 |
| 9 | 81 | 38 | 80 | 43 | 80 | 43 | 81 | 38 | 84 | 43 | 84 | 42 | 83 | 42 | 73 | 46 | 76 | 46 | 81 | 43 | 84 | 43 | 84 | 43 | 82 | 46 | 82 | 46 |
| 10 | 86 | 46 | 82 | 47 | 82 | 47 | 86 | 46 | 82 | 46 | 83 | 46 | 86 | 46 | 73 | 46 | 82 | 46 | 86 | 46 | 86 | 46 | 86 | 46 | 86 | 46 | 86 | 46 |
| 11 | 46 | 30 | 46 | 30 | 46 | 34 | 46 | 31 | 46 | 34 | 46 | 32 | 46 | 32 | 46 | 34 | 46 | 34 | 46 | 32 | 46 | 32 | 46 | 32 | 46 | 32 | 46 | 32 |
| 12 | 46 | 34 | 46 | 34 | 46 | 33 | 46 | 32 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 |
| 13 | 46 | 28 | 46 | 28 | 46 | 33 | 46 | 32 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 | 46 | 33 |
| 14 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 | 57 | 33 |
| 15 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 |
| 16 | 56 | 31 | 54 | 31 | 54 | 33 | 56 | 31 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 |
| 17 | 62 | 41 | 64 | 41 | 64 | 41 | 62 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 |
| 18 | 64 | 34 | 64 | 34 | 63 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 |
| 19 | 66 | 34 | 63 | 34 | 63 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 |
| 20 | 70 | 37 | 71 | 37 | 68 | 37 | 68 | 37 | 70 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 |
| 21 | 61 | 45 | 54 | 48 | 59 | 49 | 65 | 49 | 64 | 48 | 72 | 48 | 67 | 48 | 65 | 48 | 64 | 48 | 65 | 48 | 66 | 48 | 64 | 48 | 64 | 48 | 64 | 48 |
| 22 | 73 | 38 | 71 | 39 | 72 | 39 | 73 | 39 | 73 | 39 | 69 | 39 | 69 | 39 | 69 | 39 | 69 | 39 | 69 | 39 | 69 | 39 | 69 | 39 | 69 | 39 | 69 | 39 |
| 23 | 82 | 49 | 80 | 47 | 80 | 51 | 83 | 51 | 83 | 51 | 83 | 51 | 83 | 51 | 83 | 51 | 83 | 51 | 83 | 51 | 83 | 51 | 83 | 51 | 83 | 51 | 83 | 51 |
| 24 | 86 | 53 | 82 | 54 | 81 | 52 | 85 | 52 | 85 | 52 | 85 | 52 | 85 | 52 | 85 | 52 | 85 | 52 | 85 | 52 | 85 | 52 | 85 | 52 | 85 | 52 | 85 | 52 |
| 25 | 86 | 55 | 82 | 55 | 82 | 55 | 86 | 55 | 86 | 55 | 86 | 55 | 86 | 55 | 86 | 55 | 86 | 55 | 86 | 55 | 86 | 55 | 86 | 55 | 86 | 55 | 86 | 55 |
| 26 | 86 | 46 | 70 | 46 | 70 | 46 | 78 | 46 | 78 | 46 | 78 | 46 | 78 | 46 | 78 | 46 | 78 | 46 | 78 | 46 | 78 | 46 | 78 | 46 | 78 | 46 | 78 | 46 |
| 27 | 77 | 45 | 67 | 45 | 67 | 45 | 77 | 45 | 77 | 45 | 77 | 45 | 77 | 45 | 77 | 45 | 77 | 45 | 77 | 45 | 77 | 45 | 77 | 45 | 77 | 45 | 77 | 45 |
| 28 | 88 | 46 | 79 | 46 | 79 | 46 | 88 | 46 | 88 | 46 | 88 | 46 | 88 | 46 | 88 | 46 | 88 | 46 | 88 | 46 | 88 | 46 | 88 | 46 | 88 | 46 | 88 | 46 |
| 29 | 86 | 44 | 79 | 44 | 79 | 44 | 86 | 44 | 86 | 44 | 86 | 44 | 86 | 44 | 86 | 44 | 86 | 44 | 86 | 44 | 86 | 44 | 86 | 44 | 86 | 44 | 86 | 44 |
| 30 | 86 | 53 | 82 | 53 | 82 | 53 | 86 | 53 | 86 | 53 | 86 | 53 | 86 | 53 | 86 | 53 | 86 | 53 | 86 | 53 | 86 | 53 | 86 | 53 | 86 | 53 | 86 | 53 |
| 31 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 | 85 | 56 |
| Mns | 67.8 | 42.2 | 64.3 | 45.7 | 63.7 | 42.1 | 69.3* | 38.9* | 68.2 | 47.4 | 68.9 | 43.8 | 73.2 | 45.6 | 63.7 | 50.6 | 71.3 | 44.3 | 68.4 | 46.7 | 70.0 | 44.3 | 72.1 | 44.8 | 68.3 | 48.5 | 68.6 | 52.4 |

| Date. | South Carolina. | | | | | | | | | | | | Georgia. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Columbia. | | Conway.‖ | | Georgetown. | | Greenville.‖ | | Newberry. | | Society Hill. | | Trial. | | Adairsville.‖ | | Albany.‖ | | Atlanta. | | Augusta. | | Dahlonega. | | Macon. | | Savannah. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 64 | 46 | 66 | 46 | 66 | 46 | 65 | 46 | 65 | 46 | 65 | 46 | 65 | 46 | 66 | 46 | 66 | 46 | 65 | 46 | 65 | 46 | 65 | 46 | 65 | 46 | 66 | 46 |
| 2 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 | 76 | 54 |
| 3 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 | 74 | 50 |
| 4 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 | 73 | 51 |
| 5 | 73 | 51 | 73 | 50 | 73 | 50 | 73 | 50 | 73 | 50 | 73 | 50 | 73 | 50 | 73 | 50 | 73 | 50 | 73 | 50 | 73 | 50 | 73 | 50 | 73 | 50 | 73 | 50 |
| 6 | 81 | 53 | 73 | 53 | 73 | 53 | 81 | 53 | 81 | 53 | 81 | 53 | 81 | 53 | 81 | 53 | 81 | 53 | 81 | 53 | 81 | 53 | 81 | 53 | 81 | 53 | 81 | 53 |
| 7 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 | 73 | 44 |
| 8 | 70 | 46 | 71 | 46 | 71 | 46 | 70 | 46 | 70 | 46 | 70 | 46 | 70 | 46 | 70 | 46 | 71 | 46 | 70 | 46 | 70 | 46 | 70 | 46 | 70 | 46 | 70 | 46 |
| 9 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 | 73 | 41 |
| 10 | 63 | 46 | 61 | 46 | 61 | 46 | 63 | 46 | 63 | 46 | 63 | 46 | 63 | 46 | 63 | 46 | 61 | 46 | 63 | 46 | 63 | 46 | 63 | 46 | 63 | 46 | 63 | 46 |
| 11 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 |
| 12 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 |
| 13 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 | 46 | 34 |
| 14 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 | 57 | 34 |
| 15 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 | 44 | 30 |
| 16 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 |
| 17 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 | 64 | 41 |
| 18 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 | 64 | 34 |
| 19 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 | 66 | 34 |
| 20 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 | 68 | 37 |
| 21 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 | 72 | 48 |
| 22 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 | 70 | 38 |
| 23 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 | 78 | 51 |
| 24 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 | 85 | 55 |
| 25 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 | 81 | 57 |
| 26 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 | 86 | 54 |
| 27 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 | 81 | 56 |
| 28 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 | 86 | 56 |
| 29 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 | 84 | 57 |
| 30 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 | 86 | 57 |
| 31 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 | 86 | 58 |
| Mns | 71.3 | 48.4 | 73.2 | 48.3 | 70.6 | 50.5 | 70.0 | 44.1 | 72.6 | 45.3 | 68.8 | 47.5 | 73.4 | 44.9 | 71.6* | 43.7* | 77.5 | 49.7 | 70.6 | 50.4 | 72.9 | 49.0 | 70.7 | 45.3 | 73.5 | 48.7 | 72.1 | 52.6 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 2*—Continued.

| Date. | Georgia. | | | | Florida. | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Thomasville. | | Waycross.‡‡ | | West Point.‡‡ | | Avon Park. | | Fort Myers. | | Gainesville.‡‡ | | Jacksonville. | | Jupiter. | | Key West. | | Miami. | | Orlando. | | Pensacola. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 63 | 39 | 67 | 32 | 66 | 32 | 84 | 46 | 83 | 63 | 81 | 65 | 80 | 60 | 76 | 60 | 80 | 68 | 83 | 70 | 85 | 64 | 82 | 61 |
| 2 | 69 | 39 | 71 | 33 | 70 | 33 | 86 | 46 | 80 | 63 | 87 | 63 | 84 | 60 | 78 | 61 | 81 | 68 | 83 | 70 | 86 | 64 | 84 | 61 |
| 3 | 75 | 46 | 73 | 36 | 76 | 38 | 78 | 51 | 78 | 54 | 78 | 53 | 78 | 61 | 78 | 63 | 78 | 68 | 78 | 70 | 78 | 68 | 78 | 63 |
| 4 | 76 | 52 | 79 | 46 | 78 | 46 | 75 | 53 | 78 | 53 | 79 | 55 | 74 | 57 | 75 | 55 | 76 | 68 | 76 | 68 | 75 | 68 | 73 | 63 |
| 5 | 79 | 48 | 79 | 46 | 80 | 47 | 78 | 53 | 78 | 53 | 84 | 55 | 79 | 55 | 80 | 58 | 78 | 68 | 78 | 68 | 78 | 68 | 78 | 63 |
| 6 | 84 | 51 | 80 | 47 | 80 | 49 | 78 | 57 | 80 | 60 | 80 | 56 | 78 | 61 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 7 | 80 | 55 | 81 | 53 | 86 | 53 | 85 | 54 | 80 | 56 | 84 | 56 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 8 | 76 | 43 | 77 | 46 | 78 | 46 | 83 | 53 | 80 | 61 | 79 | 61 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 9 | 83 | 51 | 83 | 47 | 79 | 46 | 83 | 56 | 83 | 58 | 84 | 61 | 83 | 63 | 83 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 10 | 82 | 46 | 83 | 49 | 78 | 46 | 83 | 56 | 83 | 58 | 84 | 61 | 83 | 63 | 83 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 11 | 72 | 55 | 64 | 50 | 53 | 52 | 84 | 62 | 80 | 56 | 81 | 56 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 12 | 66 | 46 | 65 | 46 | 64 | 49 | 78 | 53 | 76 | 61 | 77 | 58 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 13 | 73 | 44 | 73 | 43 | 73 | 43 | 78 | 53 | 74 | 53 | 77 | 58 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 14 | 77 | 44 | 73 | 41 | 71 | 41 | 78 | 53 | 73 | 53 | 80 | 58 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 15 | 86 | 36 | 77 | 35 | 73 | 32 | 82 | 45 | 76 | 50 | 80 | 47 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 16 | 65 | 30 | 64 | 28 | 60 | 33 | 80 | 44 | 78 | 46 | 83 | 32 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 17 | 71 | 33 | 68 | 33 | 74 | 33 | 74 | 45 | 74 | 49 | 70 | 39 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 18 | 75 | 43 | 77 | 40 | 72 | 40 | 78 | 44 | 78 | 48 | 78 | 44 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 19 | 71 | 47 | 75 | 44 | 69 | 45 | 80 | 47 | 78 | 50 | 84 | 47 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 20 | 71 | 50 | 74 | 42 | 66 | 47 | 78 | 49 | 77 | 50 | 72 | 51 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 21 | 70 | 46 | 73 | 47 | 74 | 49 | 76 | 46 | 76 | 51 | 75 | 46 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 22 | 73 | 46 | 72 | 48 | 75 | 45 | 80 | 45 | 76 | 52 | 72 | 53 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 23 | 78 | 48 | 80 | 48 | 81 | 50 | 78 | 45 | 78 | 54 | 74 | 49 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 24 | 83 | 51 | 83 | 49 | 81 | 51 | 78 | 53 | 78 | 53 | 84 | 54 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 25 | 82 | 46 | 83 | 51 | 79 | 46 | 79 | 54 | 79 | 57 | 84 | 57 | 78 | 63 | 78 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 26 | 86 | 61 | 86 | 53 | 87 | 53 | 84 | 57 | 83 | 58 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 27 | 90 | 54 | 83 | 55 | 86 | 53 | 84 | 54 | 83 | 58 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 28 | 84 | 60 | 84 | 57 | 83 | 57 | 84 | 54 | 82 | 58 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 29 | 84 | 57 | 86 | 53 | 82 | 53 | 84 | 56 | 82 | 59 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 30 | 84 | 55 | 86 | 51 | 84 | 52 | 82 | 56 | 82 | 59 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 31 | 83 | 53 | 83 | 52 | 87 | 54 | 82 | 56 | 83 | 58 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| Mns | 78.4 | 49.5 | 76.7 | 47.6 | 73.6 | 46.2 | 80.2 | 53.8 | 78.5 | 56.0 | 77.2 | 53.1 | 74.0 | 55.1 | 75.9 | 60.1 | 76.1 | 66.5 | 81.1 | 59.5 | 80.8 | 62.6 | 71.5 | 57.4 |

| Date. | Alabama. | | | | | | | | | | | | Mississippi. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Anniston. | | Bermuda. | | Birmingham. | | Eufaula.‡‡ | | Mobile. | | Montgomery. | | Tuscaloosa.‡‡ | | Uniontown. | | Columbus.‡‡ | | Hattiesburg.‡‡ | | Jackson. | | Meridian. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 68 | 60 | 66 | 59 | 68 | 57 | 58 | 55 | 69 | 55 | 65 | 57 | 70 | 53 | 72 | 53 | 74 | 50 | 78 | 53 | 80 | 55 | 76 | 54 |
| 2 | 72 | 54 | 76 | 59 | 74 | 57 | 67 | 55 | 71 | 57 | 76 | 57 | 73 | 54 | 74 | 54 | 78 | 53 | 80 | 55 | 82 | 55 | 78 | 54 |
| 3 | 77 | 44 | 81 | 51 | 78 | 49 | 76 | 51 | 81 | 57 | 80 | 57 | 76 | 54 | 78 | 54 | 80 | 53 | 82 | 55 | 84 | 55 | 80 | 54 |
| 4 | 80 | 45 | 82 | 47 | 81 | 47 | 78 | 51 | 82 | 57 | 82 | 57 | 78 | 54 | 78 | 54 | 82 | 53 | 84 | 55 | 84 | 55 | 82 | 54 |
| 5 | 82 | 46 | 84 | 47 | 82 | 47 | 79 | 51 | 82 | 57 | 84 | 57 | 78 | 54 | 78 | 54 | 82 | 53 | 84 | 55 | 84 | 55 | 82 | 54 |
| 6 | 81 | 54 | 82 | 48 | 82 | 48 | 79 | 51 | 82 | 57 | 84 | 57 | 78 | 54 | 78 | 54 | 82 | 53 | 84 | 55 | 84 | 55 | 82 | 54 |
| 7 | 84 | 44 | 82 | 50 | 84 | 50 | 79 | 51 | 82 | 57 | 84 | 57 | 78 | 54 | 78 | 54 | 82 | 53 | 84 | 55 | 84 | 55 | 82 | 54 |
| 8 | 84 | 37 | 78 | 40 | 70 | 42 | 72 | 49 | 73 | 57 | 84 | 57 | 78 | 54 | 78 | 54 | 82 | 53 | 84 | 55 | 84 | 55 | 82 | 54 |
| 9 | 73 | 50 | 81 | 55 | 82 | 56 | 78 | 58 | 81 | 61 | 84 | 61 | 82 | 58 | 82 | 58 | 84 | 55 | 84 | 55 | 84 | 55 | 82 | 54 |
| 10 | 82 | 49 | 81 | 55 | 82 | 56 | 78 | 58 | 81 | 61 | 84 | 61 | 82 | 58 | 82 | 58 | 84 | 55 | 84 | 55 | 84 | 55 | 82 | 54 |
| 11 | 61 | 41 | 59 | 46 | 61 | 43 | 43 | 39 | 59 | 64 | 59 | 64 | 59 | 64 | 59 | 64 | 59 | 64 | 59 | 64 | 59 | 64 | 59 | 64 |
| 12 | 34 | 34 | 36 | 36 | 36 | 36 | 39 | 39 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| 13 | 59 | 38 | 56 | 36 | 60 | 40 | 67 | 45 | 67 | 45 | 67 | 45 | 67 | 45 | 67 | 45 | 67 | 45 | 67 | 45 | 67 | 45 | 67 | 45 |
| 14 | 74 | 50 | 74 | 42 | 60 | 42 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 |
| 15 | 77 | 46 | 77 | 42 | 67 | 42 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 |
| 16 | 78 | 46 | 78 | 42 | 67 | 42 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 |
| 17 | 80 | 46 | 80 | 42 | 67 | 42 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 |
| 18 | 80 | 46 | 80 | 42 | 67 | 42 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 |
| 19 | 80 | 46 | 80 | 42 | 67 | 42 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 |
| 20 | 80 | 46 | 80 | 42 | 67 | 42 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 | 72 | 45 |
| 21 | 75 | 51 | 60 | 47 | 76 | 52 | 68 | 49 | 70 | 49 | 70 | 49 | 70 | 49 | 70 | 49 | 70 | 49 | 70 | 49 | 70 | 49 | 70 | 49 |
| 22 | 77 | 53 | 58 | 48 | 81 | 60 | 72 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 |
| 23 | 78 | 57 | 83 | 51 | 81 | 60 | 72 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 |
| 24 | 85 | 60 | 83 | 53 | 84 | 60 | 72 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 |
| 25 | 85 | 60 | 83 | 53 | 84 | 60 | 72 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 | 74 | 46 |
| 26 | 86 | 61 | 86 | 53 | 87 | 53 | 84 | 57 | 83 | 58 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 27 | 86 | 51 | 89 | 53 | 86 | 53 | 84 | 54 | 83 | 58 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 28 | 84 | 57 | 87 | 53 | 84 | 53 | 84 | 54 | 83 | 58 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 29 | 83 | 54 | 84 | 53 | 84 | 53 | 84 | 54 | 83 | 58 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 30 | 81 | 53 | 84 | 51 | 84 | 51 | 84 | 54 | 83 | 58 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| 31 | 83 | 53 | 84 | 51 | 84 | 51 | 84 | 54 | 83 | 58 | 87 | 58 | 80 | 63 | 80 | 63 | 80 | 68 | 80 | 68 | 80 | 68 | 80 | 63 |
| Means | 73.4 | 47.5 | 77.0 | 46.7 | 73.9 | 51.9 | 72.8 | 46.0 | 74.3 | 55.9 | 75.4 | 51.9 | 75.4 | 45.5 | 77.5 | 50.7 | 76.4 | 46.4 | 79.4 | 49.0 | 78.4 | 48.4 | 78.5 | 48.7 |

## Climatological Data for March, 1910.

## DISTRICT No. 3, OHIO VALLEY.

FERDINAND J. WALZ, District Editor.

### GENERAL SUMMARY.

March, 1910, was remarkable for its unusual warmth and dryness, and for the absence of high winds and the vigorous general storms which usually characterize that month. The universally high temperature which prevailed almost continuously during the month, together with the persistent dryness, broke all records of this character in practically every section of the district. The average temperature for the month in all the States and at nearly all of the stations ranged from 8° to 12° above the usual normal March conditions. The rainfall was less than 1 inch over most of the district and less than one-half inch over much of it. The month was so exceptional in point of dryness as to be comparable rather with the fall months than with the first spring month of the year. The month was unusually favorable for outdoor work and the promotion of farming operations. The abundance of sunshine and unusual warmth had by the end of the month advanced the spring season 2 or 3 weeks ahead of the usual time. Fruit trees were in blossom and forest and shade trees were leafing out even in the more northern parts of the district.

Forest fires were burning in many of the mountain sections of the district during the last 2 weeks of the month, and the atmosphere was smoky and hazy from this cause.

### TEMPERATURE.

The mean temperature for the month, as a whole, averaged from 8° to 12° above normal in all parts of the district. The excess was greatest in Illinois, Indiana, Ohio, and Kentucky, and least in the eastern and southern portions of the district. The mean daily temperatures ranged from 8° to 26° above normal during the first week and from 15° to 30° above during the last 2 weeks of the month. There were a few days in the middle of the month when the temperature was below normal. The coldest period was the 14th to 16th, during which there were some quite low temperatures recorded. On one or more of these 3 days minimum temperatures of from 8° to 20° were registered in the central and northern portions of the district, and from 15° to 25° in the southern and southeastern portions. Maximum temperatures of from 70° to 80° were of frequent occurrence during the first decade and they were over 80° during the last decade. Remarkably high temperatures were registered generally from the 24th to 28th. About the only freezing weather or frost of the month occurred during the period 14th to 17th.

### PRECIPITATION.

Precipitation was remarkably light in all parts of the district, and what occurred was scattered through the month in light, ineffectual showers. Over the greater portion of the district precipitation did not exceed 1 inch, and over much of it it was less than one-half inch. Over much of Kentucky, the States north of the Ohio River, in western Pennsylvania, and West Virginia, the amount of rainfall for the entire month ranged from nothing to one-half inch. Over the southern portions of Kentucky and northern and extreme southeastern portions of Tennessee and the western portion of North Carolina the amount was from 1.5 to 2.5 inches. The largest amount of precipitation at any one station for the month was 3.4 inches at Cadiz, Ky., and was due to a local storm in the early part of the month. The deficiency in precipitation had become serious by the end of the month. Rain was much needed for vegetation generally, but particularly for wheat and grass as the top soil had become very dry. The subsoil, however, still held considerable moisture from the heavy snows of the winter.

The snowfall in the mountain sections was unusually light for the month of March. At a few stations in Pennsylvania and West Virginia the amount was from 4 to 5 inches, and at one place, Lycippus, Pa., it was 7.2 inches. Elsewhere in the mountain sections, if there was any snowfall at all, it was less than 2 inches.

### MISCELLANEOUS.

During a thunderstorm on March 5 a young man was killed at Waldron, Ind., by lightning. This is the first case of death from lightning reported in this district this year.

March 6 a severe electrical and rain storm passed over the vicinity of Maysville, Ky., washing lands badly and causing a troublesome landslide on the Chesapeake and Ohio Railway. On March 22 lightning destroyed a large barn on a farm near the same city, inflicting large loss.

During the latter part of the month forest fires caused considerable destruction in western Pennsylvania, northern West Virginia, eastern Ohio, and parts of Kentucky. The damage from forest fires in the vicinity of South Park, Ky., 10 miles southwest of Louisville, alone is estimated to be $20,000. The timber on several hundred acres of land was consumed and miles of fencing destroyed.

### RIVER CONDITIONS.

At the beginning of the month the rivers in the district generally were at high stages, due to melting snows during the latter part of February. Floods occurred in some of the sections of the Ohio River and in most of the tributaries which drain into that river from the north. The water ran out rapidly, however, and by the end of the month low stages were the rule in all streams. The water in the Tennessee and Cumberland rivers was remarkably low during the latter half of the month. Navigation was interrupted and lumbermen were unable to market their logs as is usual at this season of the year. The damage from floods in the Ohio was not large. The principal damage from the tributaries was done in Ohio by the Muskingum and in southern Indiana and Illinois by the Wabash.

The section director at Columbus, Ohio, reports as follows:

> The flood in the Muskingum Valley was the most damaging in the State. In all towns along the Muskingum there was money loss and great inconvenience. Houses were flooded, industrial plants were forced to suspend, traffic was delayed, and in some places water and gas service was interfered with. Zanesville suffered more than any other town on the river.

The official in charge of the Cairo office estimates the damage in the Wabash Valley at $10,000 to $12,000, most of which was to wheat.

At Pittsburg the flood stage was nearly reached on the 2d, but the water fell rapidly after that date and by the end of the month it registered only 3.5 feet, and was so low that the U. S. Engineers raised the wickets to facilitate navigation. This is the earliest that it has ever been necessary to raise the wickets at that place. Flood stages were reached from Wheeling to Point Pleasant, and the water was from 2 to 5.8 feet above flood stages. From below Point Pleasant to Maysville, inclusive, the only point where the flood stage was reached was at Portsmouth, at the mouth of the Scioto. At Cincinnati a stage of 1.8 foot above the flood stage was reached, while below Cincinnati to the Falls at Louisville the water was not within 3.8 to 4.2 feet of the flood stage. The flood stage was passed at Evansville by 2.7 feet, but at Paducah and down to Cairo the water did not reach within from 2.8 to 3.8 feet of the flood stage.

## THE WORK OF THE WATER RESOURCES BRANCH OF THE UNITED STATES GEOLOGICAL SURVEY IN THE OHIO RIVER VALLEY.

By A. H. HORTON, Engineer, United States Geological Survey.

The Water Resources Branch of the United States Geological Survey was formerly called the Hydrographic Branch, the change in name being made in 1907. The investigation of the water resources of the United States by the United States Geological Survey has been carried on since 1888, funds for this particular work being drawn from the general appropriation of the Geological Survey. The early work was confined to the Western States for use, primarily, in irrigation studies. In 1894 the popular demand for data in regard to the flow of eastern streams for use in power development became so great that Congress made a specific appropriation for stream gaging work and the Water Resources Branch was organized. The first appropriation in 1895 was $12,500; the appropriations have increased as the work has expanded until in 1903 to 1906 it was $200,000 per year; in 1907 it was reduced to $150,000, and in 1908 it was still further reduced to $100,000, and has remained at that figure since. As a result of this reduction in the appropriation the number of gaging stations has been materially decreased and the work very much crippled and embarrassed. Since the reduction in the appropriation many of the States have appropriated money to carry on stream gaging work in cooperation with the United States Geological Survey.

In carrying on the stream gaging work in the United States the country has been divided into districts with a district office located at some central or convenient point. At the present time offices of the Water Resources Branch of the United States Geological Survey are located at Boston, Mass.; Atlanta, Ga.; Newport, Ky.; Albany, N. Y.; Denver, Colo.; Helena, Mont.; Portland, Oreg.; Salt Lake City, Utah, and Los Angeles, Cal. Each office is in charge of a district engineer who is assisted by several aids. It is the duty of each district engineer to select the location of gaging stations, to see that discharge measurements are made at the proper time, that the gage readers are reading the gages honestly; and, at the end of each year prepare the data that have been collected during the year for transmission to Washington, where it is prepared for publication.

The data necessary for determining the yearly flow of any stream at any particular place are a record of the daily stage and measurements of the discharge covering the range in stage of the stream at that place; a gaging station therefore consists essentially of a gage for determining the fluctuations of the stage of a stream and some structure or apparatus from which discharge measurements can be made, usually a bridge or a cable.

The selection of a site for a gaging station is governed largely by the facilities for making discharge measurements and for locating the gage. As a rule stations are located at bridges because the floor of the bridge is a convenient and safe place from which to make measurements of the discharge and because the piers and bridge furnish a suitable and permanent place on which to place a gage. Great care is taken in the selection and equipment of gaging stations for determining discharge by velocity measurements, although in some localities where it is desired to locate stations it is a question of making the best use of existing conditions. An ideal station would be one at which there is a single span bridge at right angles to the current. The stream should be straight for some distance above and below. The current should be free and smooth from eddies or boils at all stages. For best results a good velocity at low water is necessary. The bed of the stream should be smooth and permanent and the banks high and not wooded so that the flood flow shall be confined to one channel and all passing under the bridge with no liability of backwater effect from any cause. Even where the ideal conditions do not exist care and thoroughness in making measurements will give reliable and accurate results. When a suitable bridge can not be found a cable is erected across the stream and measurements are made from a car suspended from the cable. Cable stations are numerous in the West where, on account of sparse population, few bridges have been erected.

Many engineers think that discharge measurements made from bridges where there are several piers in the channel are not accurate on account of the irregular currents near the piers and the effect of the restriction of the channel upon the gage heights. The effect of the piers on the gage is the same while measurements are being made as it is at any other time; the commotion caused by the piers does not affect more than 10 per cent of the total discharge and the velocity near the piers can be determined with errors certainly not greater than 10 to 20 per cent; 20 per cent of 10 per cent is only 2 per cent, which is the maximum error. In actual practise the error from this cause is probably much less as the velocity and location of the edge of the current are determined very carefully.

There are two classes of gages, automatic or self-recording, and nonrecording. Automatic gages are but little used in the work of the survey on account of their cost and the expense of installing them. The gage in general use is the standard chain gage. Whenever possible the ordinary staff gage is used, as it is much easier to maintain and more convenient to read. It is sometimes necessary to erect an inclined staff gage; this type is common at cable stations. The gages are referred to permanent bench marks so that they can be replaced at the same elevation in case they should be destroyed in any way.

The gage is read once or twice each day by some one living nearby, the record being kept by the gage reader in a book furnished for that purpose. By means of weekly reports of the gage heights the district office is kept informed of the stage of the streams and whether or not the gage readers are attending to their work.

There are 3 distinct methods of determining the flow of open channel streams: (1) By determining the slope and cross-section and applying Kutter's formula; (2) By means of a weir or dam; (3) By measurements of the velocity of the current and of the area of the cross-section. The latter method is the one most commonly used in the work of the Water Resources Branch; the other methods are used whenever occasion demands or opportunity presents. The two factors required to determine the discharge of a stream past a section perpendicular to the direction of the current are the area of the cross section, which is obtained by sounding the section, and the mean velocity of flow normal to the section, which is obtained by the use of a current meter.

The Price current meter is now used almost to the exclusion of other types of meters by the United States Geological Survey in the determination of the velocity of flow of water in open channels, as this style of meter is well adapted for use under practically all conditions. Briefly, the meter consists of 6 cups attached to a vertical shaft which revolves, when placed in running water, on a conical, hardened steel point. The revolutions are indicated electrically. The rating, or relation between the velocity of the moving water and the revolutions of the wheel is determined by drawing it through still water for a given distance at different speeds and noting the number of revolutions for each run. From these data a rating table is prepared which gives the velocity in feet per second of moving water for any number of revolutions in any time interval.

In making measurements with a current meter a number of points called "measuring points" are laid off above and in the plane of the measuring section at which observations of depth and velocity are taken. These points are spaced equally for those parts of the section where the flow is uniform and smooth, and are spaced unequally for other parts according to the discretion of the observer. In general, there should be from 20 to 25 measuring points.

The measuring points divide the total cross section into elementary strips, at each end of which observations of the depth and the velocity are made. The discharge of each elementary strip is the product of the average of the depths at the two ends times the width of the strip times the average of the mean velocities at the ends of the strip. The sum of the discharges of the elementary strips is the total discharge of the stream. The mean of the gage height at the beginning and end of the measurement is taken as the gage height of the measurement.

There are two methods most commonly used in determining the mean velocity in a vertical in a stream, the multiple point and single point methods. The two principal multiple point methods in general use are the vertical velocity curve and the 0.2 and 0.8 method.

In the vertical velocity curve method a series of velocity determinations are made in each vertical at regular intervals, usually about 10 to 20 per cent of the depth apart. By plotting these velocities as abscissas and their depths as ordinates and drawing a smooth curve among the resulting points the vertical velocity curve is developed; the mean velocity in the vertical is obtained from this curve. This method of obtaining the mean velocity is probably the best method known, but on account of the length of time required to make a complete measurement it is largely limited to the determination of coefficients for purposes of comparison and to measurements under ice.

In the second multiple point method the meter is held successively at 0.2 and 0.8 depth, and the mean of the velocities at these two points is taken as the mean velocity for the vertical. Numerous observations under a wide range of conditions show that this method gives the mean velocity very closely for both open water and under ice.

The single point method consists in holding the meter either at the depth of the thread of the mean velocity or at an arbitrary depth for which the coefficient for reducing to mean velocity has been determined or must be assumed.

In general practise the thread of mean velocity is considered to be at 0.6 depth and the meter is held at this point in most of the measurements made by the single point method. A large number of vertical velocity curve measurements taken on many streams and under varying conditions show the average coefficient for reducing the velocity obtained at 0.6 depth to mean velocity is practically unity. The variation of the coefficient from unity in individual cases is, however, greater than in the 0.2 and 0.8 method.

In the other principal single point method the meter is held near the surface, usually one foot below, or low enough to be out of the influence of wind or other disturbing influences. This is known as the subsurface method. The coefficient for reducing the velocity taken at the subsurface to the mean has been found to be in general from about 0.85 to 0.95, depending on the stage, velocity, and channel conditions; this method is especially adapted for flood measurements.

At the end of each year the field or base data for the gaging stations, consisting of daily gage heights, discharge measurements, and full notes are assembled in preparation for obtaining the daily flow of the streams at the various points where stations have been maintained. The first step in computing the daily discharge is the construction of a rating table which shows the discharge corresponding to any stage of the stream. The construction of this rating table depends upon the fact that as long as the conditions at or near the gaging station remain constant the discharge is a function of, and increases with, the stage.

All the discharge measurements made at a station are plotted on cross section paper with the discharges in cubic feet per second as abscissas and the gage heights at which the measurements were made as ordinates. A smooth curve is drawn among the resulting points and extended if necessary to cover the range in stage at the station; the area and mean velocity curves are generally plotted on the same sheet as an aid in fixing the location of the discharge curve and in extending the same. After the discharge curve is located a table is prepared with gage heights as one argument and discharge as the other, the discharge for each gage height to tenths or half-tenths being scaled from the discharge curve and entered in the table. From this table the daily discharge is obtained, and from the daily discharge the maximum, minimum, and mean monthly flow is obtained which, with other data, are published in the annual reports. These reports may be obtained by addressing the Director of the United States Geological Survey, at Washington, D. C.

*[To be continued.]*

TABLE 1.—*Climatological data for March, 1910. District No. 3, Ohio Valley.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | |
| *New York.* | | | | | | | | | | | | | | | | | | | |
| Allegany | Cattaraugus | 1,441 | 4 | 41.9 | ..... | 83 | 29 | 14 | 18 | 50 | 0.73 | ..... | 0.22 | 4.5 | 8 | 20 | 6 | 5 | nw. | Charles E. Whitney. |
| Bolivar | Allegany | 1,800 | 16 | 42.0 | + 9.2 | 82 | 29 | 13 | 18 | 50 | 0.46 | − 2.81 | 0.18 | 1.5 | 4 | 21 | 5 | 5 | sw. | Lowell Andrus. |
| Franklinville | Cattaraugus | 1,598 | 13 | 40.4 | + 8.5 | 79 | 29 | 11 | 15 | 46 | 0.66 | − 2.63 | 0.26 | 2.5 | 5 | 17 | 9 | 5 | s. | Dr. John W. Kales. |
| Olean | ....do | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.72 | ..... | 0.22 | 4.3 | 7 | 15 | 6 | 10 | ..... | John W. Alles. |
| *Pennsylvania.* | | | | | | | | | | | | | | | | | | | | |
| Aleppo | Greene | 1,135 | 9 | 48.8 | ..... | 84 | 24 | 17 | 11 | 44 | 0.25 | ..... | 0.10 | T. | 3 | 22 | 4 | 5 | nw. | J. S. Hinerman. |
| Baldwin | Butler | 1,404 | 4 | 46.0[a] | ..... | 83[a] | 24 | 17[a] | 11 | 45[a] | 0.35 | ..... | 0.15 | 1.0 | 4 | 16[a] | 7[a] | 7[a] | w. | S. H. Templeton. |
| Claysville | Washington | 1,127 | 6 | 49.7 | ..... | 86 | 24 | 18 | 11 | 46 | 0.13 | ..... | 0.05 | 1.0 | 4 | 19 | 8 | 4 | w. | E. T. Buchanan. |
| Franklin | Venango | 955 | 36 | 41.3 | + 3.1 | 82 | 25 | 13 | 20 | 54 | 0.59 | − 2.86 | 0.18 | 1.0 | 7 | 13 | 8 | 10 | sw. | F. E. Dixon. |
| Greenville | Mercer | 950 | 14 | 43.6 | + 6.7 | 84 | 24 | 11 | 11 | 51 | 0.24 | − 3.83 | 0.06 | 1.2 | 6 | 21 | 4 | 6 | nw. | A. M. Orr. |
| Indiana | Indiana | 1,350 | 13 | 47.6 | + 8.9 | 82 | 24 | 18 | 15 | 42 | 0.81 | − 3.70 | 0.24 | 1.5 | 7 | 18 | 9 | 4 | s. | Rev. J. M. Welch. |
| Johnstown | Cambria | 1,184 | 22 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.27 | − 3.09 | 0.28 | ..... | 11 | ..... | ..... | ..... | ..... | E. C. Lorentz. |
| Lycippus | Westmoreland | 1,420 | 18 | 49.5 | + 9.5 | 81 | 24† | 18 | 16 | 40 | 0.53 | − 3.59 | 0.12 | 7.2 | ..... | ..... | ..... | ..... | ..... | Murray Forbes. |
| Pittsburg | Allegheny | 842 | 40 | 48.8 | + 9.3 | 83 | 24 | 21 | 15 | 32 | 0.37 | − 2.64 | 0.18 | 0.7 | 7 | 13 | 11 | 7 | nw. | U. S. Weather Bureau. |
| Saegerstown | Crawford | 1,116 | 19 | 43.0 | + 7.7 | 83 | 24 | 8 | 15 | 52 | 0.68 | − 2.75 | 0.20 | 2.0 | 6 | 2 | 21 | 8 | w. | J. G. Apple. |
| St. Marys | Elk | 1,740 | 12 | 39.4 | + 4.8 | 73 | 25 | 14 | 10 | 41 | 1.05 | ..... | 0.42 | 2.0 | 5 | 20 | 0 | 11 | ..... | Wm. E. Wittman. |
| Skidmore | Lawrence | 1,000 | 6 | 46.4[b] | ..... | 85[b] | 24 | 16[b] | 12 | 47 | 0.00 | ..... | 0.00 | 0.0 | 0 | 21[b] | 1[b] | 7[b] | s. | W. H. Stoner. |
| Somerset | Somerset | 2,250 | 54 | 44.5 | + 8.8 | 81 | 24† | 15 | 15 | 44 | 0.99 | − 4.10 | 0.25 | 3.7 | 6 | 0 | 26 | 5 | nw. | W. M. Schrock. |
| Uniontown | Fayette | 999 | 22 | 48.4 | + 7.5 | 84 | 24 | 22 | 15† | 42 | 0.41 | − 3.68 | 0.13 | 0.5 | 5 | 3 | 18 | 10 | nw. | Wm. Hunt. |
| Warren | Warren | 1,137 | 21 | 41.8 | + 5.8 | 80 | 24† | 15 | 15† | 49 | 0.82 | − 2.28 | 0.36 | 5.0 | 4 | 22 | 0 | 9 | nw. | Anna Simpson. |
| *Maryland.* | | | | | | | | | | | | | | | | | | | | |
| Deer Park | Garrett | ..... | 16 | 43.7 | + 6.9 | 85 | 24 | 14 | 15 | 48 | 0.57 | − 3.57 | 0.15 | 2.0 | 6 | ..... | ..... | ..... | ..... | S. P. Specht. |
| Grantville | ....do | ..... | 16 | 44.2 | + 7.2 | 78 | 29 | 16 | 15† | 39 | 0.42 | − 4.14 | 0.24 | 1.0 | 3 | 12 | 15 | 4 | w. | J. S. Miller. |
| Oakland | ....do | ..... | 10 | 44.0 | + 6.2 | 81 | 29 | 16 | 15† | 48 | 0.95 | ..... | 0.28 | 2.9 | 7 | 9 | 16 | 6 | w. | R. E. Weber. |
| *West Virginia.* | | | | | | | | | | | | | | | | | | | | |
| Arbovale | Pocahontas | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Uriah Hevener, jr. |
| Bancroft | Putnam | ..... | 6 | 51.4 | ..... | 88 | 24 | 19 | 15 | 47 | 0.52 | ..... | 0.23 | T. | 6 | 19 | 6 | 6 | sw. | James Hill. |
| Beckley | Raleigh | 2,440 | 11 | 50.2 | + 7.2 | 82 | 29 | 15 | 15 | 50 | 0.50 | − 3.23 | 0.40 | 5.0 | 2 | 28 | 0 | 3 | w. | John A. Ewart. |
| Ben's Run | Pleasants | 622 | 9 | 50.3 | ..... | 86 | 23 | 25 | 14 | 47 | 0.19 | ..... | 0.12 | ..... | 2 | 29 | 1 | 1 | ..... | J. D. Riggs. |
| Bluefield | Mercer | 2,563 | 15 | 51.4 | + 6.9 | 87 | 29 | 18 | 15 | 44 | 0.24 | − 3.79 | 0.15 | 0.9 | 2 | 23 | 6 | 2 | ..... | Norfolk & Western Ry. |
| Buckhannon | Upshur | 1,472 | 20 | 48.9 | + 6.9 | 82 | 28 | 14 | 15 | 47 | 0.45 | − 4.23 | 0.20 | 0.5 | 3 | 25 | 6 | 0 | ..... | H. A. Darnall. |
| Cairo | Ritchie | 667 | 8 | 50.6 | ..... | 88 | 25 | 13 | 15 | 51 | 0.10 | ..... | 0.10 | 0.0 | 1 | 4 | 18 | 9 | w. | Van A. Zevely. |
| Central Station | Doddridge | 900 | 11 | 47.8[d] | + 4.0 | 86[d] | 24 | 8[d] | 15 | 55[d] | 0.19[d] | − 3.12[d] | 0.10[d] | T.[d] | 3[d] | 9[d] | 14[d] | 4[d] | sw.[d] | G. W. Sherwood. |
| Charleston | Kanawha | 598 | 24 | 54.6 | ..... | 85 | 28† | 24 | 15 | 37 | 0.66 | − 3.76 | 0.30 | 0.0 | 4 | 20 | 10 | 1 | w. | R. C. Hewes. |
| Creston | Wirt | 612 | 10 | 50.8 | ..... | 86 | 28 | 15 | 15 | 49 | 0.36 | − 3.44 | 0.31 | T. | 2 | 14 | 7 | 10 | w. | J. M. Reed. |
| Cuba | Jackson | 544 | 9 | 49.3 | ..... | 87 | 24 | 12 | 15 | 49 | 0.03 | − 4.11 | 0.03 | T. | 1 | 15 | 14 | 2 | w. | C. T. Perry. |
| Doane | Wayne | ..... | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | W. H. Jude. |
| Elkhorn | McDowell | 1,933 | 18 | 50.9 | + 3.8 | 82 | 28 | 20 | 16 | 41 | 1.90 | − 2.58 | 0.82 | 0.0 | 6 | 26 | 2 | 3 | w. | J. J. Lincoln. |
| Elkins | Randolph | 1,940 | 11 | 47.5 | + 8.4 | 81 | 29 | 18 | 15 | 49 | 0.68 | − 3.39 | 0.28 | 0.6 | 9 | 14 | 12 | 5 | w. | U. S. Weather Bureau. |
| Fairmont | Marion | 879 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.35 | − 4.07 | 0.24 | T. | 5 | ..... | ..... | ..... | w. | H. Glenn Fleming. |
| Glennville | Gilmer | 738 | 22 | 51.4 | + 7.3 | 87 | 28 | 14 | 15 | 52 | 0.87 | − 3.61 | 0.45 | T. | 5 | 11 | 3 | 17 | sw. | John Holt. |
| Grafton | Taylor | 985 | 18 | 50.1 | + 7.3 | 86 | 29 | 18 | 15 | 50 | 0.38 | − 4.16 | 0.31 | 0.2 | 4 | 24 | 5 | 2 | ..... | John W. Snider. |
| Green Sulphur Springs | Summers | 1,600 | 14 | ..... | ..... | ..... | ..... | 14 | 16 | .... | 0.10 | − 3.51 | 0.10 | T. | 1 | 26 | 2 | 3 | w. | John W. Dalton. |
| Hinton | ....do | 1,400 | 21 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.04 | − 1.86 | 0.80 | T. | 10 | ..... | ..... | ..... | sw. | V. V. Daly. |
| Huntingdon | Cabell | 510 | 15 | 50.9 | + 5.1 | 87 | 26† | 21 | 15 | 51 | 0.56 | − 4.00 | 0.36 | T. | 3 | 23 | 4 | 4 | w. | L. H. Hutchinson. |
| Lewisburg | Greenbrier | 2,200 | 10 | 48.8 | + 4.9 | 81 | 30 | 18 | 15 | 47 | 0.62 | − 3.34 | 0.26 | 1.8 | 5 | 20 | 3 | 8 | w. | Geo. T. Afgabrite. |
| Logan | Logan | 665 | 8 | 56.6 | ..... | 90 | 24 | 22 | 16 | 48 | 1.66 | ..... | 0.96 | T. | 4 | 7 | 24 | 0 | w. | H. C. Ragland. |
| Lost Creek | Harrison | 1,033 | 14 | 49.2 | + 4.8 | 84 | 24† | 16 | 15 | 55 | 0.28 | − 4.67 | 0.24 | T. | 2 | 19 | 9 | 3 | w. | Allen Smith. |
| Madison | Boone | 704 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | S. E. Bradley. |
| Mannington | Marion | 967 | 7 | 49.0 | ..... | 86 | 24 | 18 | 11 | 55 | 0.15 | ..... | 0.06 | 0.2 | 6 | 19 | 8 | 4 | sw. | Jas. A. Morgan. |
| Marlinton | Pocahontas | 2,169 | 11 | 44.0 | + 4.0 | 74 | 28 | 14 | 15 | 39 | 0.59 | − 3.41 | 0.20 | 4.0 | 4 | 20 | 7 | 4 | ..... | C. J. McCarty. |
| Morgantown | Monongalia | 1,250 | 36 | 51.2 | + 8.0 | 81 | 24† | 20 | 11† | 39 | 0.36 | − 3.71 | 0.23 | T. | 2 | 24 | 6 | 1 | s. | Horace Atwood. |
| Moundsville | Marshall | 640 | 8 | 49.8 | ..... | 88 | 24 | 20 | 11 | 50 | 0.08 | ..... | 0.06 | T. | 3 | 20 | 0 | 11 | w. | J. E. Matthews. |
| New Cumberland | Hancock | 987 | 10 | 47.8 | + 6.5 | 86 | 24 | 18 | 11 | 51 | T. | − 3.88 | T. | T. | 0 | 17 | 6 | 8 | w. | Frank S. Evans. |
| New Martinsville | Wetzel | 634 | 17 | 50.6 | + 6.5 | 87 | 24 | 20 | 15 | 49 | 0.12 | − 4.05 | 0.09 | 0.3 | 2 | 26 | 3 | 2 | s. | Wm. Ankron. |
| Nuttallburg | Fayette | 2,252 | 18 | 49.5 | + 6.1 | 81 | 28 | 13 | 15 | 42 | 0.10 | − 4.08 | 0.10 | 1.0 | 1 | 25 | 3 | 3 | ..... | Stephen Tully. |
| Parkersburg | Wood | 638 | 22 | 50.9 | + 8.6 | 86 | 24 | 22 | 15 | 41 | 0.10 | − 3.72 | 0.07 | 0.1 | 4 | 10 | 15 | 6 | s. | U. S. Weather Bureau. |
| Parsons | Tucker | 1,662 | 11 | 47.2 | + 6.2 | 85 | 27 | 12 | 16 | 58 | 0.98 | − 3.60 | 0.20 | 2.0 | 7 | 15 | 10 | 6 | ..... | J. W. Swisher. |
| Philippi | Barbour | 1,192 | 18 | 49.4 | + 5.7 | 85 | 24† | 15 | 15 | 57 | 0.67 | − 3.87 | 0.25 | 1.4 | 9 | 15 | 10 | 6 | w. | J. D. Dadisman. |
| Pickens | Randolph | 2,785 | 20 | 49.2 | + 8.7 | 84 | 27 | 5 | 15 | 51 | 1.52 | − 3.68 | ..... | 4.0 | 7 | 17 | 9 | 5 | w. | Dr. J. L. Cunningham. |
| Pineville | Wyoming | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | E. M. Senter. |
| Point Pleasant | Mason | 553 | 21 | 51.4 | + 5.2 | 87 | 28 | 20 | 15 | 46 | 0.04 | − 4.37 | 0.04 | T. | 1 | 25 | 1 | 5 | sc. | E. H. Armstrong. |
| Powellton | Fayette | 904 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | D. Swain. |
| Princeton | Mercer | 2,469 | 10 | 46.1 | ..... | 77 | 29 | 17 | 16 | 42 | 2.25 | − 3.80 | 0.85 | 5.0 | 4 | 12 | 16 | 3 | w. | H. Scott. |
| Robertsburg | Putnam | ..... | 1 | 50.0 | ..... | 87 | 24 | 17 | 15 | 48 | 0.43 | ..... | 0.23 | T. | 2 | 21 | 1 | 9 | w. | E. P. Turley. |
| Ryan | Roane | 639 | 7 | 49.2 | ..... | 86 | 24† | 13 | 15 | 52 | 0.39 | ..... | 0.19 | 5.0 | 6 | 17 | 10 | 4 | ..... | Wm. E. Ryan. |
| Smithfield | Wetzel | ..... | 6 | 47.4 | ..... | 83 | 24 | 17 | 15 | 44 | 0.10 | ..... | 0.10 | 1.0 | 1 | 24 | 6 | 1 | ne. | G. M. Whisler. |
| Spencer | Roane | 710 | 7 | 49.6 | ..... | 87 | 23† | 10 | 15 | 56 | T. | − 3.94 | T. | T. | 0 | 0 | 30 | 1 | ..... | A. M. McKown. |
| Sutton | Braxton | ..... | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. E. Baughman. |
| Terra Alta | Preston | 3,207 | 10 | 50.2 | +10.7 | 76 | 30 | 26 | 9† | 32 | 0.17 | − 5.50 | 0.17 | 0.0 | 1 | 24 | 5 | 2 | w. | C. F. Dodge. |
| Union | Monroe | ..... | 7 | 46.8 | ..... | 81 | 28† | 15 | 16 | 50 | 1.07 | ..... | 0.58 | 1.5 | 4 | ..... | ..... | ..... | ..... | Shelton Clark. |
| Valley Fork | Clay | ..... | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.05 | ..... | 0.03 | 0.0 | 2 | 16 | 14 | 1 | ..... | Miss Blanche Pierson. |
| Webster Springs | Webster | 1,500 | 7 | 50.4 | ..... | 84 | 27 | 15 | 16 | 45 | 1.33 | ..... | 0.38 | 4.5 | 6 | 12 | 16 | 3 | nw. | D. H. Hamrick. |
| Wellsburg | Brooke | 1,225 | 10 | 48.2 | + 7.9 | 81 | 24 | 21 | 11† | 34 | 0.30 | − 3.35 | 0.15 | 1.5 | 6 | 12 | 14 | 5 | nw. | C. P. Waugh. |
| Weston | Lewis | 824 | 21 | 48.2[a] | + 4.1 | 87[a] | 28 | 18[a] | 16 | 54[a] | 0.96[a] | − 3.84 | 0.54[a] | 2.0[a] | 6[a] | 17[a] | 10[a] | 4[a] | sw.[a] | Miss C. M. Davis. |
| Wheeling | Ohio | 645 | 26 | 48.2 | ..... | 87 | 24 | 23 | 11† | 51 | 0.24 | − 2.99 | 0.08 | T. | 5 | 20 | 5 | 6 | w. | Miss M. B. Forsyth. |
| Williamson | Mingo | 660 | 10 | 55.2 | + 5.4 | 89 | 24 | 21 | 16 | 44 | 1.52 | − 3.09 | 0.78 | 0.0 | 5 | 22 | 6 | 3 | c. | J. F. Keyser. |
| *Ohio.* | | | | | | | | | | | | | | | | | | | | |
| Amesville | Athens | 630 | 6 | 49.3 | ..... | 88 | 24 | 13 | 15 | 53 | 0.07 | ..... | 0.05 | T. | 2 | 16 | 13 | 2 | w. | F. W. Gibson. |
| Bangorville | Richland | 1,380 | 23 | 48.8 | +11.8 | 87 | 23 | 14 | 15 | 46 | 0.40 | − 3.53 | 0.28 | 0.5 | 4 | 14 | 15 | 2 | sw. | S. M. Painter. |
| Bellefontaine | Logan | 1,276 | 16 | 48.4 | + 9.8 | 85 | 34 | 12 | 15 | 38 | 0.07 | − 3.72 | 0.05 | T. | 2 | 13 | 14 | 4 | w. | Cory L. Lane. |
| Bladensburg | Knox | 1,100 | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Miss Mary Elliott. |
| Cadiz | Harrison | 1,245 | 7 | 49.4 | ..... | 84 | 24 | 19 | 15 | 37 | 0.24 | ..... | 0.09 | 0.7 | 6 | 13 | 12 | 6 | w. | Harry B. McConnell. |
| Cambridge | Guernsey | 803 | 18 | 47.6 | + 6.6 | 86 | 24 | 15 | 15 | 51 | 0.14 | − 3.82 | 0.14 | 0.0 | 1 | 12 | 19 | 0 | ..... | Samuel Mehaffey. |
| Camp Dennison | Hamilton | 570 | 17 | 50.9 | + 6.9 | 88 | 24 | 17 | 15 | 48 | 0.51 | − 4.04 | 0.24 | 0.0 | 3 | 20 | 9 | 2 | sw. | Henry F. Pinkvoss. |
| Canal Dover | Tuscarawas | 884 | 17 | 45.7 | + 6.2 | 82 | 24 | 18 | 11† | 47 | 0.73 | − 3.64 | 0.40 | 0.5 | 3 | 7 | 22 | 2 | sw. | Ed. S. Slingluff. |
| Canton | Stark | 1,065 | 27 | 45.4 | + 8.9 | 81 | 24 | 18 | 11 | 37 | 0.51 | − 2.80 | 0.36 | 1.6 | 8 | 17 | 10 | 4 | s. | Prof. C. F. Stokey. |
| Cardington | Morrow | 1,010 | 15 | 47.0 | + 8.7 | 84 | 24 | 14 | 15 | 45 | 0.22 | − 3.42 | 0.22 | T. | 1 | 20 | 11 | 0 | sc. | Ansel E. Salisbury. |
| Cincinnati | Hamilton | 628 | 39 | 54.0 | +11.2 | 87 | 24 | 21 | 15 | 37 | 0.39 | − 3.25 | 0.29 | T. | 2 | 16 | 8 | 7 | sw. | U. S. Weather Bureau. |
| Circleville | Pickaway | 694 | 22 | 50.6 | + 8.3 | 86 | 24 | 18 | 15 | 41 | 0.12 | − 3.49 | 0.12 | 0.0 | 1 | 11 | 15 | 5 | s. | Hon. S. W. Courtright. |
| Clarington | Monroe | 600 | 7 | 48.6 | ..... | 85 | 24† | 17 | 15 | 42 | 0.30 | ..... | 0.16 | T. | 4 | 15 | 11 | 5 | sw. | Col. S. Tschappat. |
| Columbus | Franklin | 918 | 32 | 50.1 | +10.9 | 84 | 24 | 18 | 15 | 35 | 0.28 | − 2.93 | 0.28 | T. | 1 | 13 | 13 | 5 | sw. | U. S. Weather Bureau. |
| Coshocton | Coshocton | 770 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.06 | ..... | 0.03 | 0.0 | 3 | ..... | ..... | ..... | ..... | Mrs. Ada Jeffries. |
| Dayton | Montgomery | 700 | 29 | 50.4 | +10.1 | 87 | 24 | 18 | 15 | 45 | 0.05 | − 3.48 | 0.05 | T. | 1 | 12 | 19 | 0 | sw. | Mrs. Edith L. Boyer. |
| Delaware | Delaware | 927 | 13 | 47.2 | + 6.4 | 85 | 24 | 14 | 15 | 46 | 0.24 | − 3.88 | 0.24 | T. | 1 | 16 | 6 | 9 | sw. | Prof. L. L. Hudson. |
| Demos | Belmont | 1,325 | 22 | 50.6 | +11.0 | 85 | 24 | 17 | 15 | 46 | 0.19 | − 3.56 | 0.08 | 0.4 | 4 | 24 | 5 | 2 | s. | J. T. Dysart. |
| Dennison‖ | Tuscarawas | 908 | .... | 47.8 | ..... | 85 | 24 | 18 | 11 | 51 | 0.15 | ..... | 0.13 | 0.2 | 2 | 14 | 16 | 1 | n. | Water Supply Co. |

TABLE 1.—*Climatological data for March, 1910. District No. 3*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Sky. | | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | Number of rainy days, .01 inch or more. | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Ohio*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Frankfort | Ross | 750 | 18 | 51.2 | + 8.1 | 87 | 24 | 18 | 15 | 47 | 0.00 | − 3.91 | 0.00 | 0.0 | 0 | 27 | 1 | 3 | sw. | O. A. Cory. |
| Garrettsville | Portage | 1,005 | 26 | 44.4 | + 9.9 | 83 | 24 | 15 | 11 | 50 | 0.33 | − 3.22 | 0.14 | 2.0 | 7 | 14 | 15 | 2 | sw. | S. M. Luther. |
| Granville | Licking | 960 | 28 | 48.6 | + 9.9 | 84 | 24 | 15 | 15 | 46 | 0.18 | − 3.49 | 0.18 | T. | 1 | 22 | 3 | 6 | sw. | Dr. L. E. Davis. |
| Gratiot‖ | ...do | 1,000 | 21 | 47.3 | + 7.4 | 82 | 24 | 15 | 15 | 42 | 0.18 | − 3.78 | 0.16 | 0.2 | 2 | 15 | 14 | 2 | sw. | W. B. Longstreth. |
| Green | Adams | 500 | 17 | 50.6 | + 5.1 | 86 | 24† | 13 | 15 | 48 | 0.08 | − 4.01 | 0.68 | T. | 1 | 25 | 3 | 3 | w. | W. F. Kenyon. |
| Green Hill | Columbiana | 1,135 | 18 | 44.1 | + 6.6 | 81 | 24 | 15 | 11 | 46 | 0.27 | − 3.19 | 0.12 | 0.6 | 5 | 13 | 16 | 2 | sw. | Jos. E. Bentley. |
| Greenville | Darke | 1,060 | 24 | 50.5 | +11.7 | 85 | 24 | 16 | 15 | 37 | 0.02 | − 3.86 | 0.02 | 0.0 | 1 | 12 | 19 | 0 | s. | G. A. Katzenberger. |
| Hillsboro | Highland | 1,063 | 31 | 51.5 | + 9.6 | 85 | 24 | 17 | 15 | 40 | 0.04 | − 3.21 | 0.04 | 0.0 | 1 | 7 | 24 | 0 | sw. | Carey H. Roush. |
| Ironton | Lawrence | 575 | 27 | 52.8 | + 9.3 | 90 | 24 | 21 | 16 | 42 | 0.46 | − 3.67 | 0.42 | T. | 2 | 12 | 12 | 7 | sw. | James Bull. |
| Jacksonburg | Butler | 975 | 42 | 50.8 | +11.5 | 86 | 24† | 16 | 15 | 37 | 0.05 | − 3.81 | 0.05 | 0.0 | 1 | 22 | 7 | 2 | sw. | Dr. J. B. Owsley. |
| Kenton | Hardin | 1,015 | 18 | 47.6° | + 8.7 | 83° | 24 | 14° | 15 | 42° | 0.34° | − 3.54° | 0.30° | 0.0° | 2° | 18° | 11° | 2° | nw.° | N. S. Martin. |
| Killbuck | Holmes | 1,087 | 18 | 37.6 | + 8.4 | 83 | 24 | 15 | 15 | 39 | 0.44 | − 3.49 | 0.31 | 0.5 | 4 | 15 | 14 | 2 | n. | Geo. W. Nowels. |
| Lancaster | Fairfield | 898 | 15 | 50.2 | + 8.2 | 85 | 24 | 18 | 15 | 39 | 0.10 | − 4.63 | 0.10 | T. | 1 | 22 | 5 | 4 | sw. | R. L. Renshaw. |
| Lawshe | Adams | 900 | 7 | 50.0 | ..... | 87 | 24 | 14 | 15 | 52 | 0.78 | ..... | 0.30 | T. | 3 | 23 | 4 | 4 | w. | Miss Ruth Hoffman. |
| McConnelsville | Morgan | 710 | 26 | 48.8 | + 8.4 | 86 | 24 | 15 | 15 | 48 | 0.14 | − 3.41 | 0.12 | 0.2 | 2 | 8 | 15 | 8 | nw. | C. H. Morris. |
| Marietta | Washington | 627 | 90 | 52.0b | + 9.7 | 89b | 28 | 12b | 15 | 47b | 0.19b | − 3.32b | 0.12b | 0.0b | 4b | 10b | 16b | 3b | s.b | Prof. T. D. Biscoe. |
| Marion | Marion | 980 | 32 | 49.7 | +10.4 | 85 | 24 | 14 | 15 | 46 | 0.56 | − 2.95 | 0.48 | T. | 3 | 12 | 18 | 1 | se. | Dr. E. H. Raffensperger. |
| Milfordton | Knox | 1,200 | 18 | 47.8 | +10.2 | 84 | 24 | 14 | 15 | 44 | 0.36 | − 3.93 | 0.26 | T. | 2 | 27 | 3 | 1 | sw. | L. H. Burgess. |
| Milligan‖ | Perry | 875 | 17 | 47.7 | + 5.6 | 86 | 24 | 12 | 15 | 54 | 0.08 | − 3.88 | 0.08 | T. | 1 | 14 | 14 | 3 | nw. | V. C. Eveland. |
| Millport | Columbiana | 1,145 | 18 | 45.4 | + 6.5 | 82 | 24 | 16 | 11 | 48 | 0.15 | − 3.47 | 0.05 | 0.3 | 4 | 11 | 11 | 9 | sw. | G. F. Copeland. |
| Nellie | Coshocton | 850 | 10 | 46.5 | + 8.1 | 84 | 24 | 15 | 4† | 50 | 0.38 | − 3.83 | 0.23 | 0.0 | 2 | 21 | 9 | 1 | w. | Miss Ethel L. Gamertsfelder |
| New Alexandria | Jefferson | 1,050 | 25 | 51.1 | +12.0 | 89 | 23 | 18 | 10 | 45 | T. | − 3.95 | T. | T. | 0 | 25 | 5 | 1 | s. | Mrs. Mary K. Pennell. |
| New Berlin | Stark | 1,100 | 18 | 46.1 | + 7.9 | 82 | 24 | 18 | 11† | 39 | 0.40 | − 2.94 | 0.32 | T. | 3 | 19 | 8 | 4 | nw. | Clayton Holl. |
| New Waterford | Columbiana | 1,053 | 16 | 46.8 | + 8.0 | 82 | 24 | 17 | 11 | 45 | 0.20 | − 3.93 | 0.10 | T. | 3 | 20 | 3 | 8 | sw. | Sam. C. Scott. |
| Ohio State University | Franklin | 757 | 27 | 48.7 | + 9.9 | 85 | 24 | 17 | 15 | 43 | 0.27 | − 3.29 | 0.24 | T. | 2 | 9 | 20 | 2 | sw. | Prof. H. C. Lord. |
| Pataskala | Licking | 997 | 18 | 48.4 | + 8.0 | 84 | 24 | 16 | 15 | 44 | 0.37 | − 4.04 | 0.36 | T. | 2 | 9 | 20 | 2 | sw. | J. N. Ridenour. |
| Philo(1) | Muskingum | 1,018 | 15 | 50.6 | + 9.1 | 85 | 24 | 16 | 15 | 40 | 0.03 | − 4.16 | 0.03 | T. | 1 | 19 | 10 | 2 | nw. | L. C. Burckholter. |
| Plattsburg | Clarke | 1,130 | 17 | 50.5 | +10.3 | 84 | 24† | 14 | 15 | 40 | T. | − 4.22 | T. | 0.0 | 0 | 11 | 16 | 4 | w. | F. E. Stewart. |
| Pomeroy | Meigs | 781 | 26 | 53.6 | +10.3 | 89 | 24 | 18 | 15 | 41 | 0.03 | − 3.14 | 0.01 | T. | 3 | 13 | 11 | 7 | s. | W. G. Branch. |
| Portsmouth | Scioto | 527 | 79 | 51.6 | + 6.5 | 86 | 28 | 22 | 15 | 42 | 0.41 | − 3.36 | 0.34 | T. | 3 | 17 | 6 | 8 | w. | Dr. H. A. Schirrmann. |
| Rittman | Wayne | 990 | 18 | 45.8 | + 7.7 | 83 | 24 | 18 | 11 | 44 | 0.50 | − 2.83 | 0.40 | T. | 2 | 20 | 8 | 3 | s. | J. B. Gish. |
| Shenandoah‖ | Richland | 1,100 | 18 | 44.8 | + 7.8 | 82 | 24 | 12 | 15 | 39 | 0.70 | − 2.55 | 0.62 | 0.5 | 4 | 12 | 19 | 0 | sw. | T. B. Arnett. |
| Sidney | Shelby | 985 | 27 | 49.6 | +11.1 | 88 | 24 | 17 | 15 | 43 | 0.04 | − 3.41 | 0.04 | 0.0 | 1 | 24 | 4 | 3 | sw. | Hamline B. Blake. |
| Somerset | Perry | 1,080 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.08 | − 3.69 | 0.08 | T. | 1 | 13 | 12 | 6 | s. | Miss M. W. C. Sheridan. |
| Springfield | Clarke | 1,002 | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.01 | − 4.46 | 0.01 | T. | 1 | 10 | 21 | 0 | s. | W. A. Webster. |
| Summerfield | Noble | 1,187 | 4 | 48.7 | ..... | 86 | 24 | 16 | 11† | 49 | 0.22 | ..... | 0.19 | T. | 3 | 10 | 18 | 3 | sw. | H. R. McClintock. |
| Thurman | Gallia | 606 | 17 | 52.2 | + 6.9 | 90 | 24 | 16 | 15 | 44 | T. | − 3.56 | T. | 0.0 | 0 | 11 | 17 | 3 | w. | D. D. Thomas |
| Urbana | Champaign | 1,031 | 40 | 49.1 | + 9.7 | 86 | 24 | 13 | 15 | 45 | 0.04 | − 3.54 | 0.04 | T. | 1 | 13 | 18 | 0 | sw. | Prof. J. H. Williams. |
| Warren | Trumbull | 900 | 21 | 45.2 | + 8.0 | 83 | 25 | 19 | 11 | 47 | 0.31 | − 3.09 | 0.12 | 1.5 | 3 | 21 | 6 | 4 | sw. | M. D. McCorkle. |
| Waverly‖ | Pike | 590 | 27 | 51.4 | + 9.0 | 89 | 24 | 17 | 15 | 50 | 0.03 | − 3.94 | 0.03 | 0.0 | 1 | 22 | 6 | 3 | sw. | David Lorbach. |
| Waynesville | Warren | 700 | 25 | 51.4 | + 9.4 | 85 | 24 | 17 | 15 | 39 | T. | − 3.90 | T. | 0.0 | 0 | 6 | 23 | 2 | sw. | Charles Michener. |
| Wooster | Wayne | 1,030 | 30 | 47.2 | +10.7 | 84 | 24 | 18 | 11† | 40 | 1.00 | − 2.54 | 0.29 | 1.0 | 8 | 16 | 4 | 11 | sw. | Experiment Station. |
| Youngstown | Mahoning | 846 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.37 | − 2.33 | 0.22 | 1.0 | 4 | 25 | 0 | 6 | w. | G. R. Patton. |
| Zanesville | Muskingum | 700 | 23 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.15 | − 3.22 | 0.15 | T. | 1 | 18 | 3 | 10 | w. | S. G. Sprague. |
| *Virginia.* | | | | | | | | | | | | | | | | | | | | |
| Big Stone Gap | Wise | 1,540 | 19 | 53.1 | + 6.3 | 83 | 25 | 19 | 15 | 40 | 1.55 | − 4.39 | 0.80 | 0.0 | 4 | 20 | 3 | 8 | w. | John W. Fox, sr. |
| Blacksburg | Montgomery | 2,170 | 19 | 48.8 | + 5.6 | 82 | 28† | 17 | 15 | 47 | 1.02 | − 2.51 | 0.33 | T. | 7 | 18 | 7 | 6 | w. | Agricultural Exp. Station. |
| Burkes Garden | Tazewell | 3,250 | 15 | 45.6 | + 3.3 | 76 | 28 | 14 | 15 | 47 | 1.32 | + 4.03 | 0.65 | 1.0 | 6 | 17 | 6 | 8 | w. | C. H. Greever. |
| Elk Knob | Lee | 3,243 | 7 | 55.0 | ..... | 80 | 25† | 17 | 15 | 30 | 0.90 | ..... | 0.41 | ..... | 6 | 20 | 8 | 3 | s. | Henry Nicoll. |
| Galax | Grayson | 2,300 | 2 | 49.0 | ..... | 82 | 29 | 21 | 15 | 42 | 0.31 | ..... | 0.31 | T. | 1 | 16 | 10 | 5 | s. | E. C. Williams. |
| Ivanhoe‖ | Wythe | 2,028 | 6 | 49.0 | ..... | 80 | 28 | 24 | 15 | 42 | 0.88 | ..... | 0.38 | 0.0 | 9 | 16 | 12 | 4 | w. | Miss Alice G. Jewett. |
| Lebanon | Russell | 2,131 | .. | 51.0 | ..... | 81 | 25 | 16 | 16 | 40 | 1.60 | ..... | 0.90 | 0.0 | 5 | 17 | 10 | 4 | sw. | R. D. Swain. |
| Marion | Smyth | 2,224 | 15 | 50.7° | + 7.1 | 80 | 28 | 20 | 16 | 44 | 0.87 | − 3.41 | 0.33 | 0.0 | 4 | ..... | ..... | ..... | sw. | S. W'n State Hospital. |
| Max Meadows | Wythe | 2,028 | 14 | 48.8 | + 4.0 | 80 | 28 | 16 | 16 | 43 | 0.68 | − 3.27 | 0.35 | 0.0 | 4 | 21 | 5 | 5 | w. | James M. Graham. |
| Mendota | Washington | 1,350 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.02 | ..... | 0.78 | ..... | 4 | ..... | ..... | ..... | ..... | Frank M. Baker. |
| Radford | Montgomery | 1,773 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.10 | ..... | 0.92 | ..... | 4 | ..... | ..... | ..... | ..... | Arthur Roberts. |
| Speers Ferry | Scott | 1,221 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.82 | − 2.55 | 1.16 | ..... | 7 | ..... | ..... | ..... | ..... | Mrs. L. E. Venable. |
| Wytheville | Wythe | 2,293 | 17 | 50.0 | + 4.2 | 80 | 29 | 22 | 15 | 38 | 0.91 | − 2.16 | 0.46 | 0.7 | 7 | 20 | 8 | 3 | w. | U. S. Weather Bureau. |
| *North Carolina.* | | | | | | | | | | | | | | | | | | | | |
| Andrews | Cherokee | 1,800 | .... | 54.5 | ..... | 86 | 24 | 20 | 16 | 46 | 1.34 | ..... | 0.40 | 0.0 | 5 | 16 | 13 | 2 | sw. | J. D. Link. |
| Asheville | Buncombe | 2,250 | 31 | 52.9 | + 8.0 | 82 | 28 | 21 | 15 | 37 | 0.72 | − 4.36 | 0.51 | 0.0 | 5 | 13 | 12 | 6 | se. | U. S. Weather Bureau. |
| Banners Elk | Watauga | 3,750 | 3 | 45.1 | ..... | 76 | 28† | 15 | 15 | 39 | 0.62 | ..... | 0.25 | T. | 6 | 24 | 2 | 5 | w. | T. L. Lowe. |
| Brevard | Transylvania | 2,230 | 9 | 51.7 | ..... | 83 | 31 | 18 | 16 | 43 | 2.03 | ..... | 0.80 | 0.0 | 6 | 22 | 9 | 0 | n. | W. E. Breese. |
| Bryson City | Swain | 2,000 | 22 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.36 | − 4.67 | 0.65 | 0.0 | 5 | ..... | ..... | ..... | ..... | D. K. Collins. |
| Cullowhee | Jackson | 2,100 | .... | 51.8 | ..... | 83 | 28† | 14 | 16 | 47 | 1.16 | ..... | 0.49 | 0.0 | 5 | 19 | 5 | 7 | nw. | F. H. Brown. |
| Hendersonville | Henderson | 2,167 | 14 | 52.3 | + 6.1 | 82 | 28 | 22 | 15 | 44 | 1.91 | − 4.44 | 0.63 | 0.0 | 5 | 19 | 6 | 6 | w. | T. W. Valentine. |
| Highlands | Macon | 3,670 | 20 | 48.2 | + 6.2 | 75 | 27† | 13 | 15 | 36 | 2.62 | − 5.17 | 0.80 | 0.0 | 5 | 24 | 6 | 1 | ..... | T. G. Harbison. |
| Hot Springs | Madison | 1,326 | 12 | 56.0 | + 6.7 | 86 | 29 | 19 | 16 | 39 | 0.64 | ..... | 0.26 | 0.0 | 5 | 25 | 0 | 6 | w. | P. A. Garner. |
| Jefferson | Ashe | 2,800 | 3 | 50.0 | ..... | 81 | 29 | 20 | 15 | 42 | 0.91 | ..... | 0.38 | T. | 4 | 13 | 4 | 14 | w. | E. J. Johnson. |
| Marshall | Madison | 1,646 | 9 | 54.0 | ..... | 85 | 29 | 27 | 13 | 46 | 0.21 | ..... | 0.11 | 0.0 | 3 | ..... | ..... | ..... | ..... | W. E. Finley. |
| Murphy | Cherokee | 1,614 | 34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.65 | − 3.96 | 1.03 | 0.0 | 5 | ..... | ..... | ..... | ..... | Miss J. Campbell. |
| Rock House | Macon | 3,100 | 18 | 54.6 | + 7.2 | 76 | 25† | 18 | 15 | 29 | 1.37 | − 6.05 | 0.63 | 0.0 | 5 | 19 | 8 | 4 | nw. | B. C. Hawkins. |
| Waynesville | Haywood | 2,756 | 16 | 50.2 | + 1.6 | 82 | 29 | 17 | 15† | 41 | 2.17 | − 3.54 | 1.10 | 0.0 | 6 | 19 | 7 | 5 | sw. | J. C. L. Gudger. |
| *Georgia.* | | | | | | | | | | | | | | | | | | | | |
| Diamond | Gilmer | 2,020 | 19 | 55.7a | + 6.0 | 83a | 25 | 23a | 15† | 38a | 1.66 | − 4.79 | 0.71 | ..... | 6 | 22 | 5 | 4 | ..... | R. A. Kimzey. |
| La Fayette | Walker | 871 | 3 | 56.9 | ..... | 87 | 25 | 20 | 16 | 41 | 0.57 | ..... | 0.35 | ..... | 4 | 20 | 8 | 3 | nw. | Ralph A. Snow. |
| *Alabama.* | | | | | | | | | | | | | | | | | | | | |
| Bridgeport | Jackson | 660 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.02 | − 3.87 | 1.80 | 0.0 | 3 | 16 | 3 | 12 | n. | Miss Maggie Rinkle. |
| Decatur | Morgan | 573 | 28 | 59.1 | + 5.1 | 90 | 24† | 23 | 17 | 48 | 0.65 | − 5.61 | 0.33 | 0.0 | 5 | 16 | 2 | 13 | s. | Ernest A. Carriger. |
| Florence | Lauderdale | 563 | 26 | 59.4 | + 6.5 | 90 | 24 | 22 | 16 | 46 | 1.26 | − 4.44 | 0.61 | 0.0 | 3 | 20 | 8 | 3 | s. | G. H. Smith. |
| Guntersville | Marshall | 580 | 5 | 58.4 | ..... | 88 | 25 | 23 | 16 | 38 | 1.02 | ..... | 0.38 | 0.0 | 5 | 13 | 6 | 12 | n. | L. S. Long. |
| Madison | Madison | 573 | 16 | 60.2 | + 6.0 | 88 | 24† | 22 | 16 | 41 | 0.50 | − 5.56 | 0.40 | 0.0 | 2 | 29 | 1 | 1 | n. | Albert Klish. |
| Riverton | Colbert | 360 | 13 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.42 | − 6.08 | 0.22 | 0.0 | 3 | 19 | 6 | 6 | ne. | Ernie J. Moore. |
| Scottsboro | Jackson | 652 | 27 | 58.6b | + 5.8 | 88b | 25 | 21b | 16 | 44b | 1.30 | − 5.04 | 0.88 | 0.0 | 3 | 13 | 15 | 3 | ..... | Miss Irene Caldwell. |
| Tuscumbia | Colbert | 488 | 28 | ..... | ..... | 87 | 24 | 24 | 17 | .... | 0.55 | − 5.53 | 0.19 | 0.0 | 4 | 14 | 0 | 17 | se. | Samuel Moore. |
| *Tennessee.* | | | | | | | | | | | | | | | | | | | | |
| Ashwood | Maury | 725 | 31 | 57.4 | + 8.1 | 87 | 24 | 20 | 16 | 41 | 0.25 | − 5.37 | 0.20 | 0.0 | 2 | 15 | 12 | 4 | s. | Mrs. J. W. Fleming. |
| Benton | Polk | 880 | 25 | 56.8 | + 6.9 | 87 | 25† | 18 | 16 | 45 | 0.83 | − 5.28 | 0.55 | 0.0 | 3 | 21 | 7 | 3 | s. | G. L. Williams. |
| Byrdstown | Pickett | 1,026 | 17 | 57.3 | + 8.3 | 86 | 24 | 20 | 15 | 35 | 0.90 | − 4.96 | 0.70 | 0.0 | 2 | 10 | 18 | 3 | sw. | John Lacy. |
| Carthage | Smith | 500 | 26 | 59.0 | + 9.7 | 90 | 24 | 29 | 9† | 41 | 0.70 | − 4.75 | 0.20 | 0.0 | 6 | 20 | 2 | 9 | se. | E. C. Pickering. |
| Cedar Hill | Robertson | 625 | 10 | 59.2 | ..... | 89 | 24 | 23 | 15 | 36 | 1.30 | ..... | 0.50 | 0.0 | 5 | 15 | 12 | 4 | s. | J. F. Ruffin. |
| Chattanooga | Hamilton | 808 | 31 | 59.7 | + 8.4 | 86 | 25 | 27 | 15 | 34 | 0.93 | − 5.28 | 0.68 | 0.0 | 4 | 14 | 9 | 8 | w. | U. S. Weather Bureau. |
| Clarksville | Montgomery | 520 | 47 | 57.1 | + 8.3 | 87 | 24† | 25 | 15 | 38 | 1.27 | − 3.85 | 0.45 | 0.0 | 4 | 21 | 8 | 2 | n. | Prof. Jas. A. Lyon. |
| Decatur | Meigs | 850 | 14 | 56.8 | + 5.9 | 87 | 24† | 17 | 16 | 45 | 1.04 | − 6.46 | 0.43 | 0.0 | 6 | 25 | 4 | 2 | sw. | J. W. Lillard. |
| Dickson | Dickson | 800 | 14 | 57.6b | + 8.3 | 87b | 25† | 22b | 15† | 41b | 0.66 | − 5.07 | 0.33 | 0.0 | 3 | 20 | 6 | 3 | s. | N. R. Sugg. |
| Dover | Stewart | ..... | 15 | 58.2 | + 8.6 | 93 | 24 | 22 | 16 | 45 | 1.55 | ..... | 0.60 | 0.0 | 3 | 17 | 13 | 1 | s. | A. M. Tippit. |
| Dunlap | Sequatchie | 726 | 1 | 57.2 | ..... | 88 | 23† | 20 | 16 | 45 | 0.49 | ..... | 0.20 | 0.0 | 4 | 19 | 9 | 3 | ..... | S. B. Boyd. |

TABLE 1.—*Climatological data for March, 1910. District No. 3*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | |
| *Tennessee*—Cont'd. | | | | | | | | | | | | | | | | | | | |
| Elizabethton | Carter | 1,575 | 20 | | | | | | | | | | | | | | | | Lee F. Miller. |
| Erasmus | Cumberland | 1,850 | 13 | 51.4 | + 4.0 | 83 | 24† | 12 | 16 | 49 | 1.16 | − 5.78 | 0.88 | 0.0 | 2 | 21 | 8 | 2 | sw. | Mrs. E. D. Ashley. |
| Florence | Rutherford | 560 | 28 | 55.6 | + 6.4 | 85 | 25 | 21 | 16 | 37 | 0.15 | − 5.46 | 0.06 | 0.0 | 3 | 22 | 7 | 2 | w. | Erastus P. Bell. |
| Franklin | Williamson | 655 | 20 | 56.8 | + 7.5 | 86 | 24 | 23 | 16 | 38 | 0.95 | − 4.84 | 0.35 | 0.0 | 4 | 20 | 3 | 8 | ..... | J. L. Parkes, jr. |
| Harriman | Roane | 841 | 15 | 56.4 | + 6.4 | 86 | 25† | 21 | 16 | 42 | 0.59 | − 5.66 | 0.38 | 0.0 | 2 | 12 | 14 | 5 | ..... | Robert R. Ayers. |
| Hohenwald | Lewis | 983 | 24 | 57.4 | + 8.5 | 88 | 27 | 18 | 16 | 42 | 1.46 | − 5.07 | 0.47 | 0.0 | 4 | 16 | 11 | 4 | sw. | John Lutzelman. |
| Iron City | Lawrence | ..... | 13 | 56.8 | + 5.0 | 90 | 24 | 16 | 16 | 46 | 0.32 | − 6.74 | 0.22 | 0.0 | 3 | 15 | 15 | 1 | sw. | Capt. H. P. Seavy. |
| Johnsonville | Humphreys | 384 | 14 | 56.8 | + 5.8 | 89 | 24† | 20 | 16 | 43 | 0.59 | − 4.02 | 0.26 | 0.0 | 3 | 21 | 7 | 3 | s. | Miss Sallie B. Matthews. |
| Jonesboro | Washington | 1,740 | 15 | 52.6 | + 4.7 | 83 | 24 | 18 | 15† | 40 | 0.57 | − 5.12 | 0.20 | 0.0 | 4 | 26 | 3 | 2 | ne. | Robert A. Lovegrove. |
| Knoxville | Knox | 977 | 39 | 57.3 | + 9.1 | 84 | 24 | 25 | 15 | 33 | 0.72 | − 4.86 | 0.60 | 0.0 | 3 | 12 | 15 | 4 | sw. | U. S. Weather Bureau. |
| Lebanon | Wilson | 522 | 1 | 58.8 | ..... | 89 | 24 | 21 | 15 | 45 | 0.70 | ..... | 0.54 | 0.0 | 2 | 19 | 10 | 2 | s. | Logan Fields. |
| Lewisburg | Marshall | 727 | 15 | 57.4 | + 7.6 | 89 | 24† | 19 | 16 | 47 | 0.94 | − 5.42 | 0.73 | 0.0 | 5 | 26 | 2 | 3 | s. | Dr. R. D. Crutcher. |
| Lynnville | Giles | 770 | 22 | 55.8 | + 6.2 | 85 | 29 | 22 | 15 | 37 | 0.87 | − 5.26 | 0.76 | 0.0 | 2 | 14 | 16 | 1 | s. | Col. J. H. Burrow. |
| McMinnville | Warren | 1,011 | 26 | 56.8 | + 7.6 | 87 | 24 | 20 | 16 | 40 | 0.69 | − 5.14 | 0.37 | 0.0 | 4 | 17 | 12 | 2 | nw. | J. T. Sparkman. |
| Maryville | Blount | 1,050 | 14 | 57.5 | + 7.4 | 87 | 25 | 21 | 16 | 37 | 0.69 | − 5.42 | 0.31 | 0.0 | 5 | 15 | 12 | 4 | w. | Mrs. F. E. Benedict. |
| Mountain City | Johnson | 2,486 | 13 | 48.8 | ..... | 82 | 29 | 15 | 16 | 44 | 0.47 | ..... | 0.20 | 0.0 | 3 | 24 | 5 | 2 | ..... | E. E. Barry. |
| Nashville | Davidson | 634 | 39 | 59.2 | +10.0 | 88 | 24 | 26 | 15 | 34 | 0.85 | − 4.30 | 0.54 | 0.0 | 7 | 17 | 6 | 8 | sw. | U. S. Weather Bureau. |
| Newport | Cocke | 1,280 | 20 | 53.8[a] | + 5.1 | 80[a] | 24† | 22[a] | 16 | 34[a] | 0.35 | − 4.89 | 0.35 | 0.0 | 1 | 23 | 4 | 4 | w. | Dr. C. T. Burnett. |
| Palmetto | Bedford | 770 | 17 | 58.3 | + 7.9 | 88 | 24 | 22 | 16 | 43 | 1.03 | − 4.65 | 0.75 | 0.0 | 3 | 23 | 6 | 2 | n. | Mrs. Ross Woods. |
| Pinewood | Hickman | ..... | 3 | 52.7[b] | ..... | 88[b] | 23 | 17[b] | 16 | 48[b] | 0.62[b] | ..... | 0.55[b] | 0.0[b] | 2[b] | ..... | ..... | ..... | w.[b] | Miss Carrie Cash. |
| Pope | Perry | ..... | 13 | 54.2[a] | ..... | 84 | 29 | 15 | 15 | 42 | 0.40 | − 5.88 | 0.40 | 0.0 | 1 | 23 | 6 | 2 | s. | Miss Bessie Howard. |
| Rogersville | Hawkins | 1,150 | 25 | 54.0 | + 7.0 | 86 | 24 | 18 | 16 | 43 | 1.54 | − 3.57 | 0.98 | 0.0 | 4 | 24 | 4 | 3 | w. | Fred. Beal. |
| Rugby | Morgan | 1,410 | 22 | 52.4 | + 6.6 | 86 | 24 | 10 | 16 | 49 | 0.80 | − 5.52 | 0.50 | 0.0 | 4 | 20 | 8 | 3 | nw. | S. G. Wilson. |
| Savannah | Hardin | 442 | 26 | 58.1 | + 6.8 | 87 | 24† | 22 | 16 | 43 | 0.53 | − 5.26 | 0.33 | 0.0 | 2 | 24 | 4 | 3 | sw. | J. A. Spencer. |
| Sevierville | Sevier | ..... | 4 | 54.0 | ..... | 86 | 25 | 18 | 15 | 43 | 0.75 | ..... | 0.40 | 0.0 | 3 | 17 | 7 | 7 | sw. | H. O. Eckel. |
| Sewanee | Franklin | 2,000 | 14 | 57.6 | + 9.0 | 83 | 27 | 20 | 15 | 36 | 1.22 | − 4.70 | 0.54 | 0.0 | 3 | 24 | 1 | 6 | s. | University of the South. |
| Sparta | White | 920 | 4 | 54.9 | ..... | 86 | 26† | 20 | 16 | 45 | 0.55 | ..... | 0.45 | 0.0 | 2 | 19 | 8 | 4 | w. | E. H. Hull. |
| Springdale | Claiborne | 1,058 | 20 | 52.9 | + 5.4 | 88 | 26 | 14 | 16 | 51 | 0.75 | − 4.38 | 0.60 | 0.0 | 3 | 13 | 13 | 5 | w. | Mrs. Lucy E. Breeding. |
| Springville | Henry | 377 | 7 | 56.0 | ..... | 88 | 24 | 22 | 16 | 42 | 0.89 | ..... | 0.64 | 0.0 | 4 | 21 | 7 | 3 | w. | H. A. Boden. |
| Tullahoma | Coffee | 1,075 | 22 | 56.7[a] | + 7.6 | 86 | 23 | 19 | 16 | 43 | 0.58 | − 5.75 | 0.38 | 0.0 | 6 | 13 | 16 | 2 | w. | R. T. Moore. |
| Waynesboro | Wayne | 753 | 24 | 57.1 | + 7.1 | 86 | 24 | 20 | 16 | 44 | 0.56 | − 5.31 | 0.30 | 0.0 | 4 | 15 | 13 | 3 | sw. | H. C. Boyd. |
| Wildersville | Henderson | ..... | 13 | 58.8 | + 7.1 | 88 | 27 | 25 | 15† | 38 | 0.77 | − 4.20 | 0.32 | 0.0 | 3 | 19 | 11 | 1 | s. | W. R. Wilson. |
| Yukon | Lincoln | 850 | 13 | 58.8 | + 7.0 | 86 | 27 | 25 | 15 | 42 | 1.77 | − 4.75 | 1.30 | 0.0 | 3 | 17 | 12 | 2 | sw. | W. P. Watson. |
| *Kentucky.* | | | | | | | | | | | | | | | | | | | |
| Alpha | Clinton | ..... | 16 | 58.4 | + 7.7 | 88 | 24 | 21 | 15 | 39 | 1.88 | − 4.29 | 0.85 | 0.0 | 3 | 26 | 4 | 1 | s. | W. W. Hicks. |
| Anchorage | Jefferson | 700 | 9 | 52.4 | + 5.0 | 86 | 24 | 18 | 15 | 42 | 0.05 | − 3.97 | 0.05 | 0.0 | 1 | 15 | 14 | 2 | sw. | C. E. Barrett. |
| Bardstown | Nelson | 637 | 14 | 55.6 | + 8.0 | 90 | 24 | 20 | 15 | 42 | 0.32 | − 5.48 | 0.22 | 0.5 | 2 | 20 | 1 | 10 | se. | G. M. Talbott. |
| Beattyville | Lee | 650 | 7 | 51.7 | ..... | 90 | 24 | 14 | 16 | 55 | 1.16 | ..... | 0.58 | T. | 4 | 10 | 7 | 14 | w. | G. W. Cann. |
| Beaver Dam | Ohio | 441 | 7 | 54.6 | ..... | 90 | 24 | 20 | 15 | 45 | 0.32 | ..... | 0.32 | 1.0 | 1 | 22 | 1 | 8 | ne. | T. S. Woodward. |
| Berea | Madison | 1,070 | 9 | 58.3 | + 8.8 | 88 | 24† | 15 | 15 | 44 | 0.50 | − 4.29 | 0.50 | 2.0 | 1 | 21 | 7 | 3 | sw. | C. F. Rumold. |
| Bowling Green | Warren | 500 | 21 | 57.2 | + 9.3 | 91 | 24 | 20 | 15 | 41 | 1.15 | − 4.11 | 0.75 | ..... | 5 | 19 | 7 | 5 | s. | Mrs. L. G. Causey. |
| Burnside | Pulaski | 773 | 20 | | | | | | | | 0.76 | − 4.51 | 0.32 | ..... | 5 | 18 | 8 | 5 | sw. | G. M. Estes. |
| Cadiz | Trigg | ..... | 8 | | | 89 | 24† | | | | 3.35 | ..... | 2.05 | 0.0 | 2 | 19[b] | 8[b] | 2[b] | ..... | F. T. Street. |
| Calhoun | McLean | 397 | 7 | 58.2 | ..... | 90 | 23† | 22 | 15 | 37 | 0.18 | ..... | 0.17 | T. | 2 | 14 | 15 | 2 | sw. | W. A. Taylor. |
| Catlettsburg | Boyd | 544 | 17 | | | | | | | | 0.62 | − 4.03 | 0.46 | T. | 4 | 15 | 11 | 5 | sw. | Chas. N. Bruce. |
| Earlington | Hopkins | 370 | 21 | 57.1 | + 9.6 | 90 | 24 | 22 | 15 | 39 | 0.37 | − 5.14 | 0.37 | T. | 1 | 23 | 4 | 4 | sw. | J. B. Atkinson. |
| Edmonton | Metcalfe | 600 | 19 | 54.6 | + 6.4 | 88 | 24 | 19 | 16 | 46 | 1.32 | − 4.51 | 0.65 | ..... | 3 | 20 | 6 | 5 | w. | Miss Lee Ray. |
| Eubank | Pulaski | 1,177 | 16 | 53.9 | + 7.3 | 86 | 24 | 19 | 15† | 45 | 0.75 | − 4.87 | 0.39 | T. | 5 | 18 | 3 | 10 | sw. | W. H. Henderson. |
| Falmouth | Pendleton | 530 | 21 | | | | | | | | 0.89 | − 3.47 | 0.62 | T. | 2 | 13 | 8 | 10 | s. | J. V. Oldham. |
| Farmers | Rowan | 668 | 5 | 51.4 | ..... | 88 | 24 | 15 | 15 | 51 | 0.46 | ..... | 0.16 | 0.0 | 5 | 12 | 19 | 0 | w. | Miss Gertrude Sorrell. |
| Frankfort | Franklin | 560 | 20 | 53.7 | + 7.8 | 86 | 29 | 21 | 15 | 40 | 0.18 | − 5.09 | 0.17 | T. | 2 | 19 | 10 | 2 | w. | Gustave Schaefer. |
| Franklin | Simpson | 691 | 17 | 58.5 | + 8.4 | 89 | 24 | 21 | 15 | 38 | 2.02 | − 3.03 | 1.32 | 0.0 | 3 | 8 | 19 | 4 | sw. | J. E. Newman. |
| Greensburg | Green | 581 | 18 | 52.4 | + 5.2 | 89 | 24 | 17 | 17 | 53 | 1.67 | − 3.83 | 0.51 | ..... | 6 | 11 | 0 | 20 | s. | L. C. Alcorn. |
| Highbridge | Jessamine | 762 | 8 | | | | | | | | 0.83 | ..... | 0.35 | T. | 5 | 18 | 4 | 9 | ..... | Miss Lulu Wood. |
| Hopkinsville | Christian | 524 | 14 | 58.4 | + 9.4 | 90 | 26 | 23 | 15 | 53 | 2.12 | − 3.61 | 1.20 | 0.0 | 4 | 21 | 0 | 10 | s. | W. F. Randle. |
| Irvington | Breckinridge | ..... | 12 | 56.6 | + 9.1 | 87 | 24 | 20 | 15 | 34 | 0.07 | − 5.34 | 0.07 | T. | 1 | 23 | 4 | 4 | sw. | W. J. Piggott. |
| Leitchfield | Grayson | 635 | 15 | 55.0 | + 7.8 | 87 | 24 | 20 | 15 | 39 | 0.28 | − 4.94 | 0.25 | 1.5 | 2 | 18 | 12 | 1 | sw. | John E. Stone. |
| Lexington | Fayette | 989 | 23 | 54.4 | +11.0 | 85 | 24 | 18 | 15 | 35 | 0.46 | − 4.26 | 0.30 | T. | 3 | 10 | 11 | 10 | sw. | U. S. Weather Bureau. |
| Loretto | Marion | 681 | 13 | 53.2[a] | + 5.0 | 87[a] | 24 | 18[a] | 15 | 44[a] | 0.27 | − 5.13 | 0.19 | 0.8 | 2 | 22[a] | 5[a] | 3[a] | ..... | Loretto Academy. |
| Louisville | Jefferson | 535 | 38 | 57.0 | +11.7 | 88 | 24 | 23 | 15 | 34 | 0.12 | − 4.20 | 0.12 | T. | 1 | 14 | 10 | 7 | sw. | U. S. Weather Bureau. |
| Marion | Crittenden | ..... | 16 | 58.4 | + 9.7 | 87 | 23† | 21 | 15 | 33 | 0.22 | − 4.72 | 0.22 | T. | 1 | 18 | 5 | 8 | w. | B. C. Paris. |
| Maysville | Mason | 524 | 14 | 50.4 | + 4.9 | 89 | 24 | 20 | 15† | 51 | 1.07 | − 3.96 | 0.68 | T. | 3 | 24 | 4 | 3 | se. | Mrs. Mary D. Marsh. |
| Middlesboro | Bell | 1,128 | 17 | 54.9 | + 7.1 | 86 | 24† | 19 | 16 | 45 | 0.64 | − 4.67 | 0.36 | 0.0 | 2 | 27 | 2 | 2 | ..... | B. H. Perkins. |
| Mt. Sterling | Montgomery | 930 | 21 | 52.2 | + 8.1 | 83 | 24† | 19 | 15 | 42 | 1.02 | − 4.91 | 0.51 | 0.0 | 3 | 19 | 8 | 4 | s. | James O'Connell. |
| Owensboro | Daviess | 479 | 14 | 56.2 | + 8.7 | 89 | 24 | 23 | 15 | 35 | T. | − 5.86 | T. | 0.0 | 0 | 17 | 5 | 9 | se. | Henry S. Berry. |
| Owenton | Owen | 700 | 14 | 54.0 | + 8.9 | 84 | 25† | 18 | 15 | 35 | 0.49 | − 4.77 | 0.41 | T. | 2 | 11 | 15 | 5 | ..... | J. T. Walker. |
| Paducah | McCracken | 341 | 18 | | | | | | | | 0.88 | − 3.89 | 0.80 | 0.0 | 2 | 22 | 1 | 8 | s. | S. A. Fowler. |
| Pikeville | Pike | ..... | 1 | | | | | | | | 1.44 | ..... | 0.62 | T. | 4 | 17 | 4 | 10 | nw. | A. R. Williams. |
| Richmond | Madison | 926 | 21 | 55.7 | +10.4 | 86 | 27 | 19 | 15 | 35 | 0.61 | − 4.11 | 0.34 | ..... | 6 | 13 | 8 | 10 | ..... | J. W. Crooke. |
| St. John | Hardin | 777 | 14 | 52.6 | + 6.0 | 88 | 24 | 20 | 15† | 40 | 0.31 | − 5.03 | 0.19 | 1.9 | 4 | 24 | 3 | 4 | ..... | Bethlehem Academy. |
| Scott | Kenton | ..... | 13 | 54.0 | +10.0 | 88 | 23 | 18 | 15 | 42 | 0.78 | − 4.06 | 0.32 | T. | 3 | 18 | 6 | 7 | s. | E. B. Wilson. |
| Shelby City | Boyle | 1,087 | 16 | 53.6 | + 7.3 | 87 | 24 | 15 | 15 | 42 | 0.92 | − 4.30 | 0.58 | 3.0 | 4 | 21 | 5 | 5 | s. | W. E. Grubbs. |
| Shelbyville | Shelby | 759 | 21 | 52.4 | + 7.1 | 87 | 24† | 20 | 15 | 44 | 0.21 | − 4.70 | 0.21 | 0.0 | 1 | 17 | 11 | 3 | sw. | Dr. H. W. Preissler. |
| Taylorsville | Spencer | 422 | 8 | 53.5 | ..... | 87 | 24 | 19 | 15 | 43 | 0.08 | ..... | 0.06 | 0.0 | 2 | 22 | 7 | 2 | nw. | E. D.Bourne. |
| Williamsburg | Whitley | 939 | 13 | 54.0 | + 9.6 | 88 | 26 | 20 | 16 | 47 | 0.69 | − 4.08 | 0.36 | 0.0 | 3 | 20 | 1 | 10 | w. | Noble C. Jones. |
| Williamstown | Grant | 943 | 8 | 52.4 | ..... | 87 | 24 | 11 | 16 | 48 | 0.60 | ..... | 0.35 | T. | 2 | 20 | 4 | 7 | ..... | Mrs. Sarah E. Carter. |
| *Indiana.* | | | | | | | | | | | | | | | | | | | |
| Anderson | Madison | 892 | 15 | 51.3 | +10.1 | 85 | 24 | 17 | 15 | 42 | T. | − 3.79 | T. | 0.0 | 0 | 15 | 15 | 1 | sw. | W. H. Stanton |
| Bloomington | Monroe | 744 | 15 | 51.7 | + 8.1 | 86 | 24† | 17 | 15 | 43 | 0.04 | − 5.28 | 0.04 | 0.0 | 1 | 18 | 6 | 7 | sw. | Earl E. Ramsey. |
| Bluffton | Wells | 835 | 15 | 49.8 | +10.4 | 88 | 25 | 17 | 15 | 44 | T. | − 3.70 | T. | 0.0 | 0 | 16 | 14 | 1 | sw. | Prof. P. A. Allen. |
| Butlerville | Jennings | 767 | 25 | 54.1 | +10.7 | 87 | 24 | 17 | 15 | 40 | 0.29 | − 4.48 | 0.12 | T. | 3 | 24 | 6 | 1 | ..... | C. F. Hole. |
| Cambridge | Wayne | 941 | 19 | 47.8 | + 7.5 | 86 | 24 | 15 | 15 | 50 | 0.24 | − 3.81 | 0.18 | 0.0 | 4 | 21 | 3 | 7 | s. | Charles Lemberger. |
| Columbus | Bartholomew | 632 | 27 | 52.0 | +10.4 | 89 | 24 | 17 | 15 | 48 | 0.35 | − 3.21 | 0.35 | 0.0 | 1 | 13 | 11 | 7 | sw. | John A. Perry. |
| Connersville | Fayette | 769 | 28 | 50.2 | +10.2 | 87 | 24 | 16 | 15 | 50 | T. | − 3.68 | T. | T. | 0 | 21 | 6 | 4 | w. | C. C. Hibbs. |
| Delphi | Carroll | 668 | 25 | 47.9 | +10.0 | 88 | 24 | 16 | 15 | 50 | 0.33 | − 2.70 | 0.12 | T. | 6 | 11 | 15 | 5 | ..... | Higginbotham & Son. |
| Eminence | Morgan | 782 | 4 | 51.6 | ..... | 87 | 24 | 16 | 15 | 45 | T. | ..... | T. | 0.0 | 0 | 21 | 9 | 1 | sw. | Dr. E. E. Kelso. |
| Evansville | Vanderburg | 386 | 34 | 57.2 | +12.6 | 86 | 24 | 24 | 15 | 27 | 0.01 | − 4.59 | 0.01 | 0.0 | 1 | 15 | 14 | 2 | s. | U. S. Weather Bureau. |
| Farmersburg | Sullivan | ..... | 12 | 53.2 | + 9.4 | 88 | 24 | 18 | 15 | 42 | 0.00 | − 3.75 | 0.00 | 0.0 | 0 | 23 | 6 | 2 | s. | Maurice Yeager. |
| Farmland | Randolph | 1,101 | 28 | 49.6 | +10.4 | 82 | 24 | 18 | 15 | 39 | 0.02 | − 3.33 | 0.02 | 0.0 | 1 | 17 | 1 | 13 | se. | W. J. Davisson. |
| Greenfield | Hancock | 905 | 7 | 51.1 | ..... | 80 | 24† | 17 | 15 | 38 | T. | ..... | T. | 0.0 | 0 | 5 | 24 | 2 | w. | Prof. W. C. Goble. |
| Greensburg | Decatur | 954 | 14 | 53.2 | + 9.6 | 86 | 24 | 17 | 15 | 35 | 0.23 | − 4.43 | 0.14 | T. | 3 | 14 | 12 | 5 | sw. | Chas. H. Ewing. |
| Heltonville | Lawrence | ..... | 0 | 39.5[a] | ..... | 84[a] | 26† | 16[a] | 15 | 40[a] | 0.54 | ..... | 0.54 | ..... | 1 | 26 | 5 | 0 | sw. | E. L. Palmer. |
| Huntingburg | Dubois | ..... | 2 | 56.5 | ..... | 88 | 23† | 21 | 14 | 42 | 0.01 | ..... | 0.01 | 0.0 | 1 | ..... | ..... | ..... | ..... | H. Dufendach. |
| Huntington | Huntington | 741 | 17 | 48.9 | + 9.8 | 84 | 24 | 16 | 15 | 40 | 0.15 | − 3.24 | 0.10 | 0.0 | 2 | 20 | 8 | 3 | sw. | Chas. McGrew. |
| Indianapolis | Marion | 822 | 39 | 51.9 | +12.3 | 84 | 24 | 19 | 15 | 34 | 0.07 | − 3.94 | 0.05 | T. | 2 | 9 | 15 | 7 | s. | U. S. Weather Bureau. |
| Jeffersonville | Clark | 455 | 28 | 54.4 | + 8.6 | 87 | 24 | 22 | 15 | 40 | 0.10 | − 4.22 | 0.09 | 0.0 | 2 | 20 | 7 | 4 | w. | John C. Loomis. |
| Judyville | Warren | ..... | 3 | 48.2 | ..... | 86 | 24 | 12 | 15 | 53 | 0.31 | ..... | 0.23 | 0.0 | 2 | 25 | 2 | 4 | nw. | Dale R. Warrick. |

TABLE 1.—*Climatological data for March, 1910. District No. 3*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Indiana*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Kokomo | Howard | 840 | 18 | 48.6 | + 8.0 | 85 | 24 | 16 | 15 | 44 | T. | − 3.09 | T. | T. | 0 | 7 | 17 | 7 | sw. | John W. Doty. |
| Lafayette | Tippecanoe | 617 | 31 | 49.4 | +11.5 | 87 | 24 | 20 | 15 | 46 | 0.43 | − 2.66 | 0.12 | T. | 7 | 14 | 3 | 14 | e. | Wm. J. Jones, jr. |
| Logansport | Cass | 620 | 30 | 49.2 | +11.3 | 87 | 24 | 16 | 15 | 48 | 0.34 | − 2.38 | 0.14 | 0.0 | 4 | 16 | 4 | 11 | e. | Chas. Massena. |
| Madison | Jefferson | 460 | 18 | 54.0 | + 7.9 | 88 | 24 | 19 | 15 | 44 | 0.54 | − 4.27 | 0.22 | T. | 3 | 11 | 16 | 4 | sw. | Dr. J. Cooperider. |
| Marengo | Crawford | 363 | 28 | 52.0 | + 6.9 | 86 | 24† | 16 | 15 | 45 | 0.50 | − 4.84 | 0.39 | 0.0 | 3 | 16 | 10 | 5 | sw. | J. M. Johnson. |
| Marion | Grant | 814 | 24 | 49.9 | +10.8 | 86 | 24 | 16 | 15 | 41 | 0.05 | − 3.28 | 0.05 | ..... | 1 | 14 | 14 | 3 | sw. | James F. Hood. |
| Markle | Huntington | 814 | 15 | 47.4 | + 8.1 | 80 | 28 | 14 | 15 | 42 | 0.30 | − 3.08 | 0.30 | 0.0 | 1 | 22 | 9 | 0 | sw. | I. S. Shideler. |
| Mauzy | Rush | 980 | 30 | 50.5 | +12.1 | 86 | 24 | 13 | 15 | 45 | 0.04 | − 3.80 | 0.02 | T. | 2 | 18 | 10 | 3 | sw. | Elwood Kirkwood. |
| Moores Hill | Dearborn | ..... | 9 | 53.1 | ..... | 85 | 24 | 17 | 15 | 35 | 0.80 | ..... | 0.45 | T. | 5 | 21 | 4 | 6 | sw. | W. S. Bigney. |
| Mount Vernon | Posey | 410 | 24 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.16 | − 4.82 | 0.08 | 0.0 | 3 | ..... | ..... | ..... | ..... | Chas. M. Spencer. |
| Paoli | Orange | 611 | 13 | 54.3 | + 8.4 | 86 | 27 | 15 | 15 | 43 | 0.65 | − 4.25 | 0.65 | 0.0 | 1 | 22 | 7 | 2 | sw. | James A. Gillum. |
| Princeton | Gibson | 481 | 28 | 54.7 | +10.5 | 88 | 24† | 19 | 15 | 40 | 0.30 | − 3.90 | 0.20 | 0.0 | 2 | 26 | 3 | 2 | nw. | Elisha Jones. |
| Richmond | Wayne | 972 | 25 | 48.4 | + 9.2 | 85 | 24† | 14 | 15 | 45 | 0.06 | − 3.22 | 0.03 | T. | 2 | 8 | 21 | 2 | ..... | Walter Vossler. |
| Rochester | Fulton | 775 | 7 | 47.7 | ..... | 76 | 24† | 18 | 15 | 31 | 0.27 | ..... | 0.26 | T. | 2 | 18 | 7 | 6 | ..... | G. P. Keith. |
| Rockville | Parke | 722 | 24 | 50.4 | + 9.6 | 85 | 24 | 18 | 15 | 43 | 0.01 | − 3.40 | 0.01 | 0.0 | 1 | 18 | 7 | 6 | s. | Dr. W. N. Wirt. |
| Rome | Perry | 370 | 7 | 56.0 | ..... | 91 | 24† | 19 | 15 | 48 | 0.14 | ..... | 0.09 | 0.0 | 2 | 23 | 5 | 3 | w. | Adam Anspach. |
| Salamonia | Jay | ..... | 5 | 49.2 | ..... | 85 | 24 | 14 | 15 | 43 | 0.18 | ..... | 0.18 | T. | 1 | 11 | 9 | 11 | sw. | Chas. V. Skinner. |
| Salem | Washington | 717 | 17 | 52.6 | + 7.9 | 88 | 24 | 17 | 15 | 44 | 0.19 | − 4.44 | 0.10 | 0.0 | 2 | 16 | 13 | 2 | w. | Emmet S. Allen. |
| Scottsburg | Scott | 570 | 16 | 53.8 | + 7.9 | 86 | 24 | 21 | 15 | 36 | 0.15 | − 4.53 | 0.15 | 0.0 | 1 | 13 | 13 | 5 | sw. | Frank H. Park. |
| Seymour | Jackson | 610 | 23 | 53.8 | +10.5 | 88 | 24 | 16 | 15 | 45 | 0.17 | − 4.19 | 0.10 | T. | 3 | 11 | 19 | 1 | sw. | J. Robt. Blair. |
| Shelbyville | Shelby | ..... | 6 | 51.6 | ..... | 87 | 24† | 16 | 15 | 45 | 0.07 | ..... | 0.05 | T. | 3 | 6 | 24 | 1 | sw. | B. F. Crouch. |
| Terre Haute | Vigo | 498 | 20 | 53.0 | + 9.0 | 86 | 24† | 21 | 15 | 41 | 0.07 | − 3.42 | 0.04 | 0.0 | 3 | 20 | 5 | 6 | sw. | Prof. R. G. Gillum. |
| Veedersburg | Fountain | 612 | 11 | 52.4 | + 8.9 | 87 | 24† | 17 | 15 | 34 | 0.50 | − 2.26 | 0.21 | 0.0 | 6 | 24 | 5 | 2 | s. | L. A. Culver, jr. |
| Vevay | Switzerland | 525 | 29 | 51.6 | + 7.8 | 87 | 24 | 20 | 15 | 42 | 0.40 | − 3.86 | 0.20 | 0.0 | 2 | 5 | 19 | 7 | sw. | Miss Frederica Boerner. |
| Vincennes | Knox | 431 | 18 | 54.2 | + 9.9 | 88 | 24† | 19 | 15 | 42 | 0.15 | − 4.80 | 0.10 | 0.0 | 2 | 20 | 4 | 7 | s. | Garrett V. List. |
| Washington | Daviess | 484 | 14 | 54.6 | + 8.7 | 86 | 24† | 20 | 16 | 42 | 0.13 | − 4.89 | 0.07 | 0.0 | 3 | 20 | 1 | 10 | s. | Homer B. Turrell. |
| Whitestown | Boone | ..... | 2 | 49.5 | ..... | 84 | 24 | 16 | 15 | 38 | 0.11 | ..... | 0.11 | T. | 1 | 15 | 16 | 0 | sw. | C. A. Stevenson. |
| Winona Lake | Kosciusko | ..... | 3 | 49.0 | ..... | 85 | 28 | 18 | 15 | 37 | 0.17 | ..... | 0.14 | T. | 2 | 6 | 24 | 1 | w. | Rev. Albert A. Young. |
| Worthington | Greene | 526 | 28 | 52.8 | + 9.5 | 88 | 24† | 17 | 15 | 43 | 0.02 | − 4.01 | 0.02 | 0.0 | 1 | 18 | 10 | 3 | s. | D. W. Solliday. |
| *Illinois.* | | | | | | | | | | | | | | | | | | | | |
| Albion | Edwards | 531 | 19 | 55.4 | +10.3 | 87 | 27 | 17 | 15 | 39 | 0.18 | − 4.15 | 0.11 | 0.0 | 3 | 24 | 3 | 4 | s. | B. F. Michels. |
| Charleston | Coles | 720 | 25 | 52.3 | +10.9 | 85 | 24 | 15 | 15 | 39 | 0.40 | − 2.91 | 0.24 | 0.0 | 3 | 13 | 14 | 4 | sw. | Jacob B. Daisy. |
| Equality | Gallatin | 421 | 12 | 60.0 | +10.6 | 90 | 23† | 22 | 15 | 36 | T. | − 4.37 | T. | 0.0 | 0 | 24 | 6 | 1 | s. | Dr. L. W. Gordon. |
| Fairfield | Wayne | 495 | 17 | 56.3 | +10.8 | 90 | 23 | 18 | 14 | 43 | 0.08 | − 4.13 | 0.08 | 0.0 | 1 | 24 | 6 | 7 | s. | Geo. A. Tromly. |
| Flora | Clay | 495 | 24 | 55.0 | +11.9 | 88 | 23† | 17 | 15 | 45 | 0.24 | − 3.61 | 0.12 | 0.0 | 3 | 21 | 8 | 2 | nw. | Jos. S. Peak. |
| Golconda | Pope | 500 | 32 | 56.8 | +10.0 | 89 | 24 | 25 | 15 | 41 | 0.30 | − 4.19 | 0.18 | 0.0 | 3 | 19 | 8 | 4 | sw. | Dr. D. Lawrence. |
| Hoopeston | Vermilion | 715 | 8 | 49.6 | ..... | 86 | 24 | 16 | 15 | 47 | 0.46 | ..... | 0.23 | 0.0 | 7 | 24 | 4 | 3 | ..... | S. F. Hoskinson. |
| McLeansboro | Hamilton | 462 | 27 | 59.4[b] | +14.7 | 87 | 25 | 30* | 8† | 42* | T. | − 4.08 | T. | 0.0 | 0 | 25 | 4 | 2 | w. | C. C. Judd. |
| Martinsville | Clark | 630 | 22 | ..... | ..... | ..... | ..... | 15 | 15 | ..... | 0.40 | ..... | 0.40 | 0.0 | 1 | ..... | ..... | ..... | ..... | G. M. Daugherty. |
| Mount Carmel | Wabash | 424 | 9 | 55.3 | ..... | 89 | 24 | 21 | 15 | 44 | 0.28 | ..... | 0.18 | 0.0 | 3 | 17 | 5 | 9 | n. | Mrs. H. M. Phillips. |
| New Burnside | Johnson | 556 | 15 | 57.2 | + 8.9 | 85 | 26† | 20 | 15 | 34 | 0.00 | − 4.53 | 0.00 | 0.0 | 0 | 20 | 9 | 2 | s. | Geo. Harris. |
| Olney | Richland | 486 | 23 | 55.2 | +10.8 | 89 | 24 | 18 | 15 | 41 | 0.27 | − 4.14 | 0.17 | T. | 2 | 15 | 10 | 6 | sw. | Victor E. Phillips. |
| Palestine | Crawford | 500 | 28 | 54.5 | +12.0 | 87 | 27 | 19 | 15 | 40 | 0.19 | − 4.00 | 0.19 | 0.0 | 1 | 19 | 9 | 3 | s. | Duane Shaw. |
| Paris | Edgar | 600 | 17 | 49.8 | + 8.8 | 86 | 24 | 19 | 15 | 44 | 0.23 | − 2.74 | 0.13 | 0.0 | 2 | 17 | 12 | 2 | sw. | H. P. Twyman. |
| Philo | Champaign | 700 | 26 | 49.9 | +10.7 | 87 | 24 | 15 | 15 | 48 | 0.23 | − 2.72 | 0.12 | 0.0 | 3 | 24 | 7 | 0 | sw. | H. A. Burr. |
| Rantoul | ...do | 768 | 19 | 51.3 | +11.4 | 87 | 23 | 17 | 15 | 51 | 0.43 | − 2.49 | 0.31 | 0.0 | 3 | 22 | 5 | 4 | sw. | Wm. Breiner. |
| Robinson | Crawford | 500 | 10 | 55.3 | + 9.3 | 87 | 27 | 19 | 15 | 39 | 0.32 | − 3.96 | 0.20 | 0.0 | 3 | 24 | 5 | 2 | sw. | A. P. Woodworth. |
| Sumner‖ | Lawrence | 459 | 2 | 54.4 | ..... | 85 | 27 | 20 | 15 | 35 | 0.23 | ..... | 0.15 | 0.0 | 2 | 19 | 1 | 11 | s. | O. A. Fyffe. |
| Tuscola | Douglas | 644 | 17 | 51.4 | +10.4 | 87 | 23† | 15 | 15 | 47 | 0.40 | − 2.92 | 0.27 | 0.0 | 3 | 17 | 7 | 7 | sw. | E. W. Lester. |
| Urbana‖ | Champaign | 725 | 8 | 50.3 | ..... | 85 | 24 | 17 | 15 | 47 | 0.38 | ..... | 0.17 | 0.0 | 4 | 11 | 18 | 2 | sw. | Prof. J. G. Mosier. |

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
‖ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
Estimated by observer.
Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1910. District No. 3, Ohio Valley.*

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *New York.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Allegany | Allegheny | .01 | | .01 | | | .09 | .10 | | | | | | .07 | .20 | .03 | T. | | | | .22 | | | | | | | | | T. | | | 0.73 |
| Bolivar | do | T. | | | | | | .17 | | | | | | .05 | .06 | | T. | T. | | | .18 | | | | | | | | | | | | 0.46 |
| Franklinville | do | | | | | | T. | .15 | T. | T. | | | | .05 | .05 | .15 | T. | T. | | | .26 | | T. | | | | | | | | | T. | 0.66 |
| Olean | do | .06 | | T. | | | | .22 | .08 | | | | | | .14 | .02 | | | | | .04 | .16 | | | | | | | | | | | 0.72 |
| *Pennsylvania.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aleppo | Ohio | .10 | | | | | | T. | | | | | | | .05 | | | T. | | | .10 | | T. | | | | | | | | | | 0.25 |
| Baldwin | Allegheny | | | | | | | .10 | | | | | | .15 | .05 | | .05 | | | | T. | | | | | | | | | T. | | | 0.35 |
| Beaver Dam‖ | Ohio | .07 | | | | | | .02 | .01 | | | | | | T. | T. | T. | .04 | | | | .05 | | .02 | | | | | | | .06 | | 0.27 |
| Bradford‖ | Allegheny | T. | | T. | | | | .19 | T. | | | | | .06 | .05 | T. | | T. | | | .32 | | T. | | | | | | | | | | 0.62 |
| California | Monongahela | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clarion‖ | Allegheny | T. | | | | | | .10 | .10 | | | | | | .24 | .04 | | .12 | | | | .22 | | T. | | | | | | | T. | | 0.82 |
| Claysville | Ohio | .05 | | | | | | T. | | | | | | T. | .02 | T. | | .04 | | | .02 | | T. | | | | | | | T. | T. | | 0.13 |
| Confluence‖ | Youghiogheny | .10 | T. | | | | | .06 | T. | | | | | | T. | .08 | T. | .01 | T. | | | .10 | | | | | | | | | | | 0.38 |
| Davis Island Dam‖ | Ohio | .05 | T. | | | | | .09 | T. | | | | | | .02 | T. | T. | .04 | | | | .05 | | T. | | | | | | | .05 | | 0.30 |
| Derry Station | Allegheny | | .04 | | | | | .06 | | | | | | .01 | T. | .07 | | .09 | .04 | | .03 | | T. | | | | | | | T. | .10 | | 0.44 |
| Franklin‖ | do | | | | | | | .08 | .04 | | | | | | .18 | .01 | | .08 | | | .10 | .10 | T. | | | | | | | | | | 0.59 |
| Freeport‖ | do | .03 | T. | | | | | .04 | .05 | | | | | | .01 | .07 | | .06 | | | | .02 | | T. | | | | | | | | .30 | | 0.58 |
| Greensboro‖ | Monongahela | .14 | | | | | | .01 | | | | | | | T. | .02 | | .04 | T. | | | .12 | | | | | | | | | | | | 0.33 |
| Greensburg | Youghiogheny | .07 | T. | | | | .02 | .07 | | | | | | .01 | .01 | .03 | | .01 | | | .01 | | T. | | | | | | | T. | .10 | | 0.33 |
| Greenville | Ohio | | | | | | T. | .06 | T. | | | | | .03 | .03 | T. | | .05 | | T. | .06 | | T. | | | | | | | .01 | T. | | 0.24 |
| Grove City | do | | | | | | | .04 | T. | | | | | .01 | .02 | .02 | | .08 | | | .22 | | | | | | | | | T. | | T. | 0.39 |
| Herrs Island Dam‖ | Allegheny | .05 | .01 | | | | | .05 | .04 | | | | | | .01 | .02 | T. | .05 | | | T. | .05 | | .01 | | | | | | | .18 | T. | 0.47 |
| Indiana | do | .24 | | | | | | .10 | .04 | | | | | .05 | .07 | T. | | | | | .19 | | T. | | | | | | | .12 | | | 0.81 |
| Irwin | Monongahela | | | | | | .10 | T. | T. | | | | | .01 | T. | T. | | T. | | | .10 | | | | | | | | | T. | T. | | 0.21 |
| Johnstown | Allegheny | .18 | .02 | .02 | | | | .08 | .08 | | | | | | .24 | .08 | .01 | .04 | T. | | | .24 | | | | | | | | | | .28 | | 1.27 |
| Lock No. 4‖ | Monongahela | .10 | T. | | | | | | T. | | | | | | .05 | T. | | .10 | | | T. | | | T. | | | | | | | .12 | | 0.37 |
| Lycippus | Allegheny | .12 | .02 | | | | T. | .12 | | | | | | T. | .08 | .06 | | .08 | | | T. | | | | | | | | | | .05 | | 0.53 |
| Parkers Landing‖ | do | | | | | | | T. | .10 | | | | | | .04 | T. | | .10 | | | | T. | | | | | | | | | | | 0.24 |
| Pittsburg | Ohio | .01 | | | | | .03 | .03 | | | | | | .01 | T. | T. | T. | .05 | | T. | .06 | | T. | | | | | | | .18 | T. | T. | 0.37 |
| Saegerstown | Allegheny | .03 | | .04 | | | | .18 | | | | | | .03 | .20 | T. | | | | | .20 | | | | | | | | | | | T. | 0.68 |
| St. Marys | do | | | | | | .23 | T. | | | | | | .20 | | | | .12 | | | .42 | | | | | | | | | .08 | | | 1.05 |
| Saltsburg‖ | do | .18 | .04 | | | | | .04 | .02 | | | | | | .08 | .02 | T. | .06 | | | | .06 | | T. | | | | | | | | .06 | T. | 0.56 |
| Skidmore | Ohio | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Somerset | Youghiogheny | | | | | | | .22 | .08 | | | | | .15 | .17 | .12 | | | | | .25 | | | | | | | | | | | | 0.99 |
| Springdale‖ | Allegheny | .09 | .03 | | | | | .11 | .02 | | | | | | .04 | .01 | | .04 | | | | .08 | | | | | | | | | .37 | | 0.79 |
| Uniontown | Monongahela | .06 | | | | | T. | .04 | | | | | | T. | .05 | | | .13 | | | .13 | | T. | | | | | | | | | | 0.41 |
| Warren | Allegheny | | | | | | | .36 | | | | | | .10 | .20 | | | | | | .16 | | | | | | | | | | | | 0.82 |
| West Newton‖ | Youghiogheny | .12 | T. | T. | | | | T. | .02 | | | | | | T. | T. | T. | .04 | T. | | | .10 | | T. | | | | | | | | .06 | | 0.34 |
| *Maryland.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deer Park | Youghiogheny | .11 | | | | | | .11 | | | .05 | | | | .05 | | | .10 | | | .15 | | | | | | | | | | | | 0.57 |
| Grantsville | do | | | | | | | | | | | | | | .15 | | | | | | .24 | | | | | | | | | | | .03 | 0.42 |
| Oakland | do | .28 | | | | | | | | | .05 | | | | .18 | .04 | | .12 | | | .24 | | T. | | | | | | | | .04 | | 0.95 |
| *West Virginia.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arbovale | Great Kanawha | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bancroft‖ | do | .23 | .03 | | | | .04 | T. | | | .05 | .07 | | | | | | | | | | .10 | | | | | | | | | | | 0.52 |
| Beckley | do | | | | | | | | | | .40 | .10 | | | | | | | | | | | | | | | | | | | | | 0.50 |
| Ben's Run | Ohio | .07 | | | | | | | | | | | | | | | | | | .12 | | | | | | | | | | | | | 0.19 |
| Bluefield | Great Kanawha | | | | | | | | | | .09 | .15 | | | | | | | | | | | | | | | | | | | | | 0.24 |
| Brandonville | Monongahela | | .06 | | | | | T. | | | | | | | | .02 | | | | | | | | | | | | | | | | | 0.08 |
| Buckhannon | do | .20 | | | | | | | | | .20 | | | | .05 | | | | | | | | | | | | | | | T. | | T. | 0.45 |
| Cairo | Little Kanawha | | | | | | | | | | | | | | | | | | | | | .10 | | | | | | | | | | | 0.10 |
| Central Station | Middle Island Creek | .08 | | | | | | T. | | | T. | | | | .01 | T. | | | | T. | .10 | | T. | | | | | | | | | T. | 0.19 |
| Charleston‖ | Great Kanawha | .30 | .06 | | | | | | | | .10 | .20 | | | | | | | | | | | | | | | | | | | | | 0.66 |
| Creston‖ | Little Kanawha | .31 | .05 | | | | | T. | | | T. | T. | | | T. | T. | | | | | | T. | | | | | | | | | T. | | 0.36 |
| Cuba | Sand Creek | .03 | | | | | T. | | | | T. | | | | T. | | | | | | T. | | T. | | | | | | | T. | | T. | 0.03 |
| Davis | Monongahela | .20 | | | | | | | | | | | | | .10 | | | .10 | | | .10 | | | | | | | | .05 | | | | 0.55 |
| Doane | Big Sandy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elizabeth | Little Kanawha | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elkhorn | Big Sandy | .42 | | | | | .18 | | | .02 | .82 | | .34 | | | | | | | | | | | | | | | | .12 | | | | 1.90 |
| Elkins | Monongahela | .01 | .06 | T. | | .01 | .06 | | T. | T. | .19 | | | T. | .03 | T. | | .03 | T. | T. | .28 | | .01 | | | | | | | | T. | | 0.68 |
| Fairmont | do | .24 | .01 | | | | | T. | | | | T. | | | T. | .04 | | .02 | T. | | | .04 | | T. | | | | | | | T. | | 0.35 |
| Glenville‖ | Little Kanawha | .45 | T. | | | .10 | | .10 | | | T. | .12 | | | T. | T. | | | | | | .10 | | | | | | | | | | | 0.87 |
| Grafton | Monongahela | .02 | | | | | | | | | .03 | | | | .02 | | | | | | .31 | | T. | | | | | | | | T. | | 0.38 |
| Green Sulphur Springs | Great Kanawha | | T. | | | T. | | T. | | | .10 | | | | T. | | | | | T. | T. | T. | T. | | | | | | T. | | | | 0.10 |
| Hinton‖ | do | .80 | .34 | | | .01 | .04 | | | | .24 | .48 | | | T. | .02 | | | | | .04 | .06 | | | | | | | | | .01 | | | 2.04 |
| Huntington‖ | Ohio | .10 | | | | | .36 | | | | T. | .10 | | | | | | | | | | T. | | | | | | | | | | | | 0.56 |
| Lewisburg | Great Kanawha | .26 | .12 | | | .07 | | T. | | | .15 | .02 | | | T. | | | | | T. | | | | | | | | | | | | | | 0.62 |
| Logan | Guyandotte | .20 | T. | | | T. | .32 | | | | .96 | .18 | | | T. | T. | | | | | T. | | T. | | | | | | | | | | | 1.66 |
| Lost Creek | Monongahela | .24 | T. | | | | | T. | | | T. | | | | T. | | | | | | .04 | | T. | | | | | | | | | | | 0.28 |
| Madison | Great Kanawha | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mannington | do | .08 | T. | | | | | T. | | | | | | | .02 | T. | | .02 | | | .04 | .01 | T. | T. | | | | | | | | .01 | | 0.16 |
| Marlington | do | .18 | | | | | | | | | .20 | .20 | | | | | | | | .01 | | | | | | | | | | | | | | 0.59 |
| Morgantown | Monongahela | .13 | | | | | | | | | | | | | T. | T. | | T. | | | T. | .23 | T. | | | | | | | | | T. | | 0.36 |
| Moundsville | Ohio | | | | | | | T. | | | | | | | T. | | | .01 | | | .08 | | T. | | | | | | | | .01 | | 0.08 |
| New Cumberland | do | | | | | | T. | T. | | | | | T. | T. | T. | | | T. | | | T. | | T. | | | | | | | T. | | T. | | T. |
| New Martinsville | do | .09 | | | | | | | | | | | | | .03 | | | | | | T. | | | | | | | | | | | | | 0.12 |
| Nuttallburg | Great Kanawha | | | | | T. | | T. | | | .10 | | | | T. | | | | | T. | | | | | | | | | | | | | | 0.10 |
| Parkersburg | Ohio | .05 | | | | | T. | | | | | | | | .01 | | | | | T. | .03 | | T. | | | | | | | T. | | .01 | | 0.10 |
| Parsons | Monongahela | | | | | | .08 | | | | .10 | | | | .10 | .10 | | .20 | | | .20 | | .20 | | | | | | | T. | | | | 0.98 |
| Philippi | do | .25 | | | | T. | | .02 | | | .07 | | | | .07 | .05 | | .04 | | | .07 | .08 | .02 | | | | | | | | | | | 0.67 |
| Pickens | do | | .24 | | | .30 | T. | .12 | | | .20 | | | | .20 | | | | | | .46 | | | | | | | | | | | | | 1.52 |
| Pinsville | Guyandotte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point Pleasant‖ | Ohio | .04 | | | | | T. | | | | T. | T. | | | T. | T. | | | | | | | | | | | | | | | | | | 0.04 |
| Powellton | Great Kanawha | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Princeton | do | .80 | | | | .85 | | | | .10 | .50 | | | | | | | | | | | | | | | | | | | | | | 2.25 |
| Robertsburg‖ | do | .20 | | | | | .23 | | | | T. | | | | | | | | | | | | | | | | | | | | | | 0.43 |
| Rowlesburg‖ | Monongahela | .34 | .06 | | | | | .02 | | | | .04 | | | T. | .06 | T. | .04 | .04 | | | .18 | | T. | | | | | | | | | | 0.78 |
| Ryan | Great Kanawha | .03 | .01 | | | | | | | | .19 | | | | .13 | | | | | | .02 | | T. | | | | T. | | | .01 | | T. | | 0.39 |
| St. Marys‖ | Ohio | .10 | .08 | T. | | | | | | | | | | | T. | T. | | | | | | .06 | | | | | | | | | | | | 0.24 |
| Smithfield‖ | Fishing Creek | | | | | | | | | | | | | | T. | .10 | T. | | | | | | | | | | | | | | | | | 0.10 |
| Spencer‖ | Little Kanawha | | T. | | | | | | | | T. | | | | | T. | | | | | | T. | | | | | | | | T. | | | | T. |
| Sutton | Great Kanawha | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terra Alta | Monongahela | T. | | | | T. | | | | | | | | | | | | | | | .17 | | | | | | | | | | T. | | 0.17 |
| Union | Great Kanawha | .58 | .22 | | | | | | .12 | | .15 | | | | | | | | | | | | | | | | | | | | | | | 1.07 |
| Valley Fork | do | | | | | | | | | | | | | | | .03 | | | | | | | | | | | | | .02 | | | | 0.05 |
| Webster Springs | do | .27 | .23 | | | .10 | | T. | | | .38 | | | | .25 | | | | | T. | .10 | | T. | | | | | | T. | | | | 1.33 |
| Wellsburg | Ohio | | | | | | .02 | .02 | | | | | | | .15 | | | .01 | | | .05 | | .05 | | | | | | | | | | | 0.30 |
| Weston‖ | Monongahela | .54 | T. | | | | | .10 | | | T. | .12 | | | | .08 | | | | | | .08 | | .04 | | | | | | | | T. | | 0.96 |
| Wheeling‖ | Ohio | .08 | .04 | | | | | | T. | | | | | | .06 | T. | T. | .04 | | | | .02 | | | | | | | | | T. | | | 0.24 |
| Williamson‖ | Big Sandy | .36 | .04 | | | | .34 | | | | .22 | .56 | | | | | | | | | | | | | | | | | | | | | | 1.52 |
| *Ohio.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amesville | Ohio | .02 | | | | | | T. | | | | | | | T. | | | | | | .05 | | | | | | | | | T. | T. | | 0.07 |
| Bangorville | Muskingum | | | | | | .02 | T. | | | | | | T. | .05 | | | T. | | .05 | .28 | | T. | | | | | | | T. | | T. | | 0.40 |
| Bellefontaine | Great Miami | | .02 | | | | T. | T. | | | | | | | | | | | | T. | .05 | | | | | | | | | | | | 0.07 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 3*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Ohio*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bladensburg | Muskingum | | | | | | .09 | .02 | | | | | | .01 | .06 | T. | | .01 | | | .05 | | T. | | | | | | | | T. | 0.24 |
| Cadiz | Ohio | | | | | | | | | | | | | | | | | | | | .14 | | | | | | | | | | | 0.14 |
| Cambridge | Muskingum | | | | | | | | | | | | | | | | | | | | .23 | | | | | | | | | | T. | 0.51 |
| Camp Dennison | Ohio | | | | | .04 | .24 | | | | | | | T. | .05 | | | | | | .28 | | T. | | | | | | | | T. | 0.73 |
| Canal Dover | Muskingum | .40 | | | | | T. | T. | | | | | | T. | .03 | | | .03 | | .09 | .27 | | .02 | | | | | | | .01 | .01 | 0.51 |
| Canton | ...do | | | | | | T. | .05 | | | | | | T. | T. | | | | | T. | .22 | T. | | | | | | | | T. | | 0.22 |
| Cardington | Scioto | | | | | | T. | T. | | | | | | | T. | | | | | | .10 | | T. | | | | | | | | T. | 0.39 |
| Cincinnati | Ohio | T. | | | | .29 | | | | | | | | | T. | | | | | | .12 | | | | | | | | | | | 0.12 |
| Circleville | Scioto | | | | | | T. | | | | | | | | | | | | | | .12 | | | | | | | | | T. | T. | 0.30 |
| Clarington | Ohio | .10 | | | | | T. | .02 | | | | | | T. | T. | | | | | | .16 | | .02 | | | | | | | | T. | T. | 0.28 |
| Columbus | Scioto | | | | | T. | T. | T. | | | | | | | T. | | | | | | .28 | | T. | | | | | | | | | 0.06 |
| Coshocton‖ | Muskingum | .03 | | | | | | .01 | | | | | | | | | | | | | .05 | .02 | | | | | T. | | | | | 0.05 |
| Dayton | Great Miami | | | | T. | T. | T. | | | | | | | T. | T. | | | T. | | | .24 | | T. | | | | | | | | | 0.24 |
| Delaware | Scioto | T. | | | | T. | T. | T. | | | | | | T. | .02 | | | .02 | | | .08 | | T. | | | | | | | T. | T. | 0.19 |
| Demos | Ohio | .07 | | | | T. | | T. | | | | | | T. | .02 | | | T. | | | .13 | | T. | | | | | | | | T. | 0.15 |
| Dennison | Muskingum | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Frankfort | Scioto | | | | | | .02 | .03 | | | | | | | .02 | | | .08 | | T. | .14 | | T. | | | | | | | .02 | T. | T. | 0.33 |
| Garrettsville | Mahoning | .02 | | | | | T. | T. | | | | | | | T. | | | | | | .18 | | T. | | | | | | | | T. | 0.18 |
| Granville | Muskingum | | | | | | | T. | | | | | | | .02 | | | | | | .16 | | | | | | | | | | | 0.18 |
| Gratiot | ...do | | | | T. | | * | .68 | | | | | | | T. | | | | | | | | | | | | | | | | | 0.68 |
| Green | Ohio | | | | | | T. | .03 | | | | | | T. | T. | T. | | .03 | | .04 | .05 | | T. | | | | | | | .12 | T. | T. | 0.27 |
| Green Hill | Muskingum | | | | | T. | .02 | | | | | | | | | | | | | T. | T. | | | | | | | | | | | 0.02 |
| Greenville | Great Miami | | | | | T. | | | | | | | | | T. | | | | | | .04 | | | | | | | | | | | 0.04 |
| Hillsboro | Scioto | | | | | | .42 | | | | .04 | | | | | | | | | | | | | | | | | | | | | 0.46 |
| Ironton | Ohio | | | | | T. | | | | | | | | | | | | | | | .05 | | | | | | T. | | | | | 0.05 |
| Jacksonburg | Great Miami | | | | | | .04 | T. | | | | | T. | .05 | | | | | | .30 | .04 | | | | | | | | | .04 | | | 0.34 |
| Kenton | Scioto | | | | | | | T. | | | | | | | T. | | | | | | .31 | | | | | | | | | | T. | 0.44 |
| Killbuck | Muskingum | | | | | T. | T. | T. | | | | | | | | | | | | | .10 | | T. | | | | T. | | | | | 0.10 |
| Lancaster | Ohio | | | | | T. | .30 | | | | | | | | T. | | | | | | .25 | | | | | | | | | .23 | | | 0.78 |
| Lawshe | ...do | | | | | | T. | T. | | | | | | | .02 | | | | | T. | .12 | | | | | | | | | | T. | 0.14 |
| McConnelsville | Muskingum | | | | | | | | | | | | | | .01 | | | | | | .12 | | | | | | | | | .01 | | 0.19 |
| Marietta | Ohio | .05 | | | | | | | | | | | | T. | | | | T. | | .08 | .40 | | | | | | | | | | | 0.56 |
| Marion | Scioto | | | | | | .08 | T. | | | | | | | T. | | | | | | .26 | | | | | | | | | | | 0.36 |
| Milfordton | Muskingum | .10 | | | | | T. | | | | | | | | T. | | | | | | .08 | | | | | | | | | | | 0.08 |
| Milligan | ...do | | | | | | | .02 | | | | | | | T. | | | .03 | | T. | .05 | | T. | | | | | | | .05 | | 0.15 |
| Millport | Ohio | | | | | | .15 | | | | | | | | | | | | | | .23 | | | | | | | | | | T. | 0.38 |
| Nellie | Muskingum | | | | | | T. | | | | | | | | T. | | | | | | T. | | | | | | | | | | T. | T. |
| New Alexandria | Ohio | | | | | | | T. | | | | | | T. | | T. | | | | T. | .32 | | .05 | | | | | | | .03 | T. | | 0.40 |
| New Berlin | Muskingum | | | | | | | .05 | | | | | | T. | T. | | | T. | | | .05 | T. | | | | | | | | .10 | | | 0.20 |
| New Waterford | Ohio | | | | | | | | | | | | | | T. | | | | | | .24 | | | | | | | | | | | 0.27 |
| Ohio State University | Scioto | T. | | | | T. | .03 | T. | | | | | | | T. | | | | | | .36 | | T. | | | | | | | | .01 | 0.37 |
| Pataskala | Muskingum | | | | | | | T. | | | | | | | | | | | | | .03 | | | | | | | | | | T. | 0.03 |
| Philo(1) | ...do | | | | | | T. | T. | | | | | | | | | | | | | .03 | | | | | | | | | T. | | T. |
| Plattsburg | Great Miami | | | | T. | T. | T. | | | | | | | | | | | | | | T. | | T. | | | | | | | | .01 | 0.03 |
| Pomeroy | Ohio | | | | | T. | .01 | .01 | | | | | | | T. | | | | | | | | | | | | | | | | T. | 0.41 |
| Portsmouth‖ | ...do | .03 | .04 | | | T. | .34 | | | | | | | | T. | | | | | | T. | | | | | | | | | | | 0.50 |
| Rittman | Muskingum | | | | | | | .10 | | | | | | T. | | | | | | .40 | | | T. | | | | | | | | | 0.70 |
| Shenandoah | ...do | | | | | | T. | T. | | | | | | | .05 | | | | | .48 | .14 | | .03 | | | | | | | T. | | 0.64 |
| Sidney | Great Miami | | | | | | | | | | | | | | T. | | | | | | .04 | | | | | | | | | | | 0.08 |
| Somerset‖ | Muskingum | | | | | | T. | T. | | | | | | | | | | | | | | .08 | | | | | | | | | | | 0.01 |
| Springfield | Great Miami | | | | | T. | .01 | | | | | | | | T. | | | | | | T. | | T. | | | | | | | | | | 0.22 |
| Summerfield | Ohio | .02 | | | | | T. | T. | | | | | | | T. | | | T. | | | .19 | | T. | | | | | | | | T. | .01 | T. |
| Thurman | ...do | | | | | | | T. | | | | | | | | | | | | | T. | | | | | | | | | | | | 0.04 |
| Urbana | Great Miami | | | | | | | | | | | | | | T. | | | | | | .04 | | T. | | | | | | | T. | | | 0.31 |
| Warren | Mahoning | | | | | | | .07 | | | | | | T. | T. | | | .12 | | T. | .12 | | T. | | | | | | | T. | T. | 0.03 |
| Waverly | Scioto | | | | T. | T. | | | | | | | | | | | | | | | .03 | | | | | | | | | | | 0.03 |
| Waynesville | Great Miami | | | | | T. | | | | | | | | | | | | | | | T. | | | | | | | | | | | T. |
| Wooster | Muskingum | | | | | | .22 | .25 | | | | | | .02 | .25 | | | .05 | | .02 | .29 | | .07 | | | | | | | .03 | | T. | 1.00 |
| Youngstown‖ | Mahoning | | | | | | | | | | | | | | | | | .10 | | | .22 | | .03 | | | | | | | | .02 | | 0.37 |
| Zanesville‖ | Muskingum | T. | | | | | * | T. | T. | | | | | * | T. | T. | | | | | * | | 15 | | T. | | | | | * | T. | | 0.15 |
| *Virginia.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Big Stone Gap | Tennessee | | | | | T. | .23 | T. | | T. | .80 | .12 | | | T. | | | | | | T. | .40 | | | | | | | | | | | 1.55 |
| Blacksburg | Kanawha | .28 | .06 | | | .33 | .12 | .03 | | | .16 | .04 | | | T. | | | | | | T. | | | | | | | | | | | | 1.02 |
| Burkes Garden | Tennessee | .20 | .04 | | | T. | .65 | .08 | | | .25 | .10 | T. | | | | | | | | | | | | | | | | | | | | 1.32 |
| Elk Knob | ...do | .01 | | | | .11 | | | | .21 | .41 | .04 | | | | | | | | | | | .12 | | | | | | | | | | 0.90 |
| Galax | Kanawha | .31 | T. | | | T. | T. | | | | T. | T. | | | | | | | | | T. | | | | | | | T. | | | | | 0.31 |
| Ivanhoe‖ | ...do | .38 | .12 | .02 | | .02 | .16 | .02 | | | .01 | .12 | | | | | | | | | | | | | | | | .03 | | | | | 0.88 |
| Lebanon | ...do | | | | | .10 | | .20 | | | .90 | .10 | | | | | | | | | | | | | | | | .30 | | | | | 1.60 |
| Marion | Tennessee | .21 | T. | | | | .33 | | | | .13 | .20 | | | | | | | | | | | | | | | | T. | | | | | 0.87 |
| Max Meadows | Kanawha | | | | | | .35 | .15 | | | | .07 | .11 | | | | | | | | | | | | | | | | | | | | | 0.68 |
| Mendota‖ | Tennessee | .78 | .10 | | | | | .06 | | | | .68 | | | | | | | | | | | 46 | | | | | | | | | | 2.08 |
| Radford‖ | Kanawha | .46 | .68 | | | | .92 | T. | | | .04 | T. | | | | | | | | | | | | | | | | | T. | | | | 2.10 |
| Speers Ferry‖ | Tennessee | 1.26 | .18 | | | | .38 | | | | .30 | 1.16 | | | | | | | | | | | 32 | | | | | | | .22 | | | 3.82 |
| Wytheville | Kanawha | .09 | .01 | | | .34 | .13 | | | .06 | .11 | | | | | T. | | | | .17 | | | | | | | | | | | | | 0.91 |
| *North Carolina.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Andrews | Tennessee | .35 | .15 | | | | | | | | .40 | .34 | | | | | | | | | | | 10 | | | | | | | | | | 1.34 |
| Asheville | ...do | .18 | T. | | | | | | | .01 | .28 | .24 | | | | | | | | T. | | | .01 | | | | | | | | | | 0.72 |
| Banners Elk | ...do | T. | | | | | .10 | | | | .07 | .25 | .08 | | | | | | | .04 | .08 | | | | | | | | | | | | 0.62 |
| Brevard | ...do | .80 | | | | | | | | | | .25 | .45 | | | | | | | .40 | .05 | .08 | | | | | | | | | | | 2.03 |
| Bryson City‖ | ...do | .53 | | .06 | | | | | | | .06 | .65 | .06 | | | | | | | | | | | | | | | T. | | | | | 1.36 |
| Cullowhee | ...do | .33 | .01 | | | | | | | T. | .15 | .49 | | | | | | | | .18 | T. | T. | | | | | | | | | | | 1.16 |
| Hendersonville | ...do | .48 | | | | | | | | | .10 | .63 | | | | | | | | .28 | .42 | | | | | | | | | | | | 1.91 |
| Highlands | ...do | .80 | | | | | | | | | .60 | .40 | | | | | | | | .75 | | | .07 | | | | | | | | | | 2.62 |
| Hot Springs | ...do | .17 | | | | | | | | | .10 | .16 | | | | | | | | .20 | .01 | | | | | | | | T. | | | | 0.64 |
| Jefferson | Great Kanawha | .38 | | | | | .18 | | | T. | T. | .20 | | | | | | | | .15 | | | | | | | | | | | | | 0.91 |
| Marshall | Tennessee | .07 | | | | | | | | | .03 | .11 | | | | | | | | | | | | | | | | | | | | | 0.21 |
| Murphy‖ | ...do | 1.03 | .82 | | | | | | | | .20 | .50 | .10 | | | | | | | | | | | | | | | | | | | | 2.65 |
| Rock House | Savannah | .13 | T. | | | | | | | | .63 | .12 | | | | | | | | .47 | | T. | | .02 | | | | | | | | | 1.37 |
| Waynesville‖ | Tennessee | 1.10 | .05 | T. | | | | | | | T. | .74 | .06 | | | | | | | | .16 | .06 | T. | | | | | | | | | | 2.17 |
| *Georgia.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diamond | Tennessee | .22 | .04 | | | | | | | * | .71 | .30 | | | | | | | | | .08 | .31 | | | | | | | | | | | 1.66 |
| LaFayette | ...do | | .04 | | | | | | | | .35 | .11 | | | | | | | | | .07 | | | | | | | | | | | | 0.57 |
| *Alabama.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.02 |
| Bridgeport‖ | Tennessee | .10 | 1.70 | | | | | | | | | .22 | | | | | | | | | | | | | | | | | | | | | 0.65 |
| Decatur‖ | ...do | .03 | .10 | | | | | | | .12 | | .33 | | | | | | | | | T. | T. | | .07 | | | | | | | | | 1.26 |
| Florence | ...do | .61 | | | | | | | | | .25 | | | | | | | | | | | .40 | | | | | | | | | | | 1.02 |
| Guntersville‖ | ...do | .02 | .18 | | | | | | | .38 | .06 | .38 | | | | | | | | T. | T. | | T. | T. | | | | | | | | | 0.50 |
| Madison | ...do | | | | | | | | .10 | | .40 | | | | | | | | | | T. | T. | | T. | | | | | | | | | 0.42 |
| Riverton‖ | ...do | | T. | | | | | | | .04 | T. | .16 | | | | | | | | | | .22 | | | | | | | | | | | 1.30 |
| Scottaboro | ...do | | .88 | | | | | | T. | T. | .29 | | | | | | | | | .13 | | T. | | | | | | | | | | | 0.55 |
| Tuscumbia‖ | ...do | | .19 | | | | | | | .08 | | .19 | | | | | | | | | | .09 | | | | | | | | | | | |
| *Tennessee.* | | | | | | | | | | | | | | | | | | | | | | .06 | | | | | | | | | | | 0.25 |
| Ashwood | Tennessee | | | | | | | | | | .20 | | | | | | | | | | .18 | | | | | | | | | | | | 0.83 |
| Benton | ...do | | .55 | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | | | |

TABLE 2.—*Daily precipitation for March, 1910. District No. 3*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Tennessee*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Birds Bridge[‖] | Tennessee | .68 | .20 | | | | | | | | .03 | .29 | | | | | | | | | .09 | .22 | .04 | | | | | | | | | | 1.55 |
| Bluff City[‖] | do | .74 | T. | | | | .32 | | | | | .40 | | | | | | | | | | | | | | | | | | | | | 1.46 |
| Byrdstown | Cumberland | | | | | | | | | .70 | .20 | | | | | | | | | | | | | | | | | | | | | | 0.90 |
| Carthage[‖] | do | .02 | .06 | | | | | | | | .20 | .16 | | | | | | | | | .05 | .19 | | | | | | | | | | | 0.70 |
| Cedar Hill | do | | | | | | | | | .50 | .35 | | | | | | | | .20 | .10 | .15 | T. | T. | | | | | | | | | | 1.30 |
| Celina[‖] | Cumberland | | .15 | | | | | | | | 1.00 | .18 | | | | | | | | | .12 | | | | | | | | | | | | 1.45 |
| Center Point | Tennessee | | | | | | | | | | .38 | T. | | | | | | | | | | .15 | .11 | | | | | | | | | | 0.64 |
| Charleston[‖] | do | .20 | .60 | | | | | | | | .04 | .20 | | | | | | | | | .03 | .03 | | T. | | | | | | | | | 1.10 |
| Chattanooga | do | .68 | | | | | | | | | .18 | | | | | | | | .06 | | .01 | | T. | | | | | | | | | | 0.93 |
| Clarksville | Cumberland | | | | | | | | | .40 | .45 | | | | | | | | .11 | T. | .31 | | | | | | | | | T. | | | 1.27 |
| Clinton[‖] | Tennessee | .15 | .10 | | | | | | | | .05 | .50 | | | | | | | | | T. | .03 | | | | | | | | | | | 0.83 |
| Dandridge[‖] | do | .96 | .08 | | | | | | | .04 | | .50 | | | | | | | | | | | | | | | | | | | | | 1.58 |
| Decatur | do | .02 | .25 | | | | | | | .01 | .30 | .03 | | | | | | | | | .43 | T. | | | | | | | | | | | 1.04 |
| Dickson | Cumberland | | | | | | | | | | .33 | | | | | | | | | .11 | | .22 | | | | | | | | | | | 0.66 |
| Dover | do | | | | | | | | | .47 | .48 | | | | | | | | | | | | T. | | | | | | T. | .60 | | | 1.55 |
| Dunlap | Tennessee | .01 | .20 | | | | | | | | .20 | | | | | | | | .08 | | | | | | | | | | | | | | 0.49 |
| Elizabethton[‖] | do | .67 | .16 | .05 | | | .05 | | | | .01 | .35 | T. | .02 | | | | | | | | 10 | | | | | | | | T. | | | 1.41 |
| Erasmus | Cumberland | T. | | | | | | | | T. | .88 | | | | | | | | T. | | .28 | | T. | | | | | | | | | | 1.16 |
| Florence | do | .04 | | | | | | | | T. | .08 | | | | | | | | | T. | | .03 | | T. | T. | | | | | | | | 0.15 |
| Franklin | do | .05 | | | | | | | | T. | .55 | | | | | | | | T. | .20 | T. | | .15 | | | | | | | | | | 0.95 |
| Halls Hill[‖] | do | | .26 | | | | | | | | | .17 | | | | | | | | | | .37 | | .05 | | | | | | | | | 0.85 |
| Harriman | Tennessee | T. | | | | | | | | T. | .38 | | | | | | | | | | .21 | | | | | | | | | | | | 0.59 |
| Hohenwald | do | .47 | | | | | | | | | .45 | | | | | | | | | .26 | | .28 | | | | | | | | | | | 1.46 |
| Iron City | do | .03 | | | | | | | | | .22 | | | | | | | | | | | .07 | | | | | | | | | | | 0.32 |
| Jefferson City | do | | | | | | | | | | | .50 | | | | | | | | | | | | | | | | | | | | | 0.50 |
| Johnsonville | do | | | | | | | | | T. | .25 | | | | | | | | | T. | | .26 | T. | | | | | | | | | .08 | 0.59 |
| Jonesboro | do | | | | | | | | | | .19 | .17 | | | | | | | | .20 | | | | | | | | | | | | .01 | 0.57 |
| Kingston[‖] | do | .16 | .09 | | | | | | | | .07 | .31 | | | | | | | | | .20 | | T. | | | | | | | | | | 0.83 |
| Knoxville | do | .02 | | | | | | | | T. | .60 | | | | | | | | | | .10 | | | | | | | | | | | | 0.72 |
| Lebanon | Cumberland | | | | | | | | | T. | .54 | | | | | | | | | .16 | T. | | T. | | | | | | | | | | 0.70 |
| Lewisburg | Tennessee | .04 | | | | | | | | .05 | .73 | | | | | | | | | T. | | .02 | T. | .10 | | | | | | | | | 0.94 |
| Loudon[‖] | do | .30 | .10 | | | | | | | | | .60 | | | | | | | | | .12 | | | | | | | | | | | | 1.12 |
| Lynnville | do | T. | | | | | | | | T. | .76 | | | | | | | | | | | T. | T. | .11 | | | | | | | | | 0.87 |
| McGhee[‖] | do | .60 | .15 | | | | | | | | | .42 | | | | | | | | | .05 | | | | | | | | | | | | 1.22 |
| McMinnville | Cumberland | T. | T. | | | | | | | .01 | .37 | | | | | | | | .14 | | .17 | | T. | | | | | | | | | | 0.69 |
| Maryville | Tennessee | .03 | .16 | | | | | T. | | T. | .31 | .14 | | | | | | | | | .05 | | | | | T. | | | | | | | 0.69 |
| Mountain City | do | | | | | | .09 | | | | .20 | .18 | | | | | | | | | | | | | | | | | | | | | 0.47 |
| Nashville | Cumberland | .06 | | | | | | | | T. | .54 | | | | | | | | .14 | .03 | .02 | | .05 | | | | | | .01 | | | | 0.85 |
| Newport | Tennessee | .35 | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | 0.35 |
| New River[‖] | Cumberland | .12 | | | | | | | | | .27 | .24 | | | | | | | | | | .14 | | | | | | | | .02 | | | 0.79 |
| Palmetto | Tennessee | .05 | .23 | | | | | | | T. | .75 | | | | | | | | | | | | | | | | | | | | | | 1.03 |
| Pinewood | do | T. | | | | | | | | T. | .55 | | | | | | | | | | .07 | | | | | | | | | | | | |
| Pope | do | | | | | | | | | | .40 | | | | | | | | | | | | | | | | | | | | | | 0.40 |
| Rogersville[‖] | do | .98 | | | | | T. | | | | .06 | .38 | | | | | | | | | | 12 | | | | | | | | | | | 1.54 |
| Rugby | Cumberland | | | | | | | | | .15 | .50 | | | | | | | | | | .14 | .01 | | | | | | | | | | | 0.80 |
| Savannah | Tennessee | T. | | | | | | | | | .30 | | | | | | | | | | | .33 | | | | | | | | | | | 0.53 |
| Sevierville | do | .21 | | | | | | | | | .40 | .14 | | | | | | | | | | | | | | | | | | | | | 0.75 |
| Sewanee | do | .48 | | | | | | | | | .54 | | | | | | | | .20 | | | | | | | | | | | | | | 1.22 |
| Sparta | Cumberland | T. | | | | | | | | | .45 | | | | | | | | | | T. | .10 | T. | | | | | | | | | | 0.55 |
| Springdale | Tennessee | | | | | T. | | | | .10 | .60 | | | | | | | | | | .05 | | | | | | | | | | | | 0.75 |
| Springville | do | | | | | | | | | .07 | .57 | | | | | | | | | | | | | | | | | | | .12 | .13 | | 0.89 |
| Tazewell[‖] | do | .80 | | | | | | | | | .15 | .45 | | | | | | | | | | 30 | | | | | | | | | | | 1.70 |
| Tullahoma | do | .01 | .05 | | | | | | | .03 | .38 | .01 | | | | | | | T. | | | | .10 | | | | | | | | | | 0.58 |
| Walling[‖] | Cumberland | .02 | | | | | | | | .01 | .22 | .23 | | | | | | | | .02 | .20 | .10 | | | | | | | | | | | 0.80 |
| Waynesboro | Tennessee | .30 | | | | | | | | .05 | .13 | | | | | | | | T. | T. | | .08 | T. | T. | | | | | T. | | | | 0.56 |
| Wildersville | do | | | | | | | | | | .32 | | | | | | | | | | | .20 | | | | | | | | | | .16 | 0.77 |
| Worsham[‖] | Cumberland | | | | | | | | | .15 | .28 | .05 | | | | | | | | .50 | .25 | | | | | | | | | | | | 1.23 |
| Yukon | Tennessee | 1.30 | | | | | | | | | .40 | | | | | | | | | | | .07 | T. | | T. | | | | | | | | 1.77 |
| *Kentucky.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpha | Cumberland | .80 | | | | | | | | | .85 | | | | | | | | | T. | .23 | | | | | | | | | | | | 1.88 |
| Anchorage | Ohio | | | | | T. | | | | | | | | | | | | | | | .05 | | | | | | | | | | | T. | 0.05 |
| Bardstown[‖] | Salt | | T. | | | | | | | | .10 | | | | | | | | | | | .22 | | | | | | | | | | | 0.32 |
| Beattyville | Kentucky | | .14 | | | | .22 | | | | .58 | .22 | | | | | | | | T. | | T. | | | | | | | | T. | | | 1.16 |
| Beaverdam[‖] | Green | | | | | | | | | | .32 | | | | | | | | | T. | | T. | | | | | | | | | | | 0.32 |
| Berea | Kentucky | | | | | | | | | | .50 | | | | | | | | T. | T. | | | | | | | | | | | | | 0.50 |
| Bowling Green[‖] | Green | | .05 | | | | | | | .02 | .75 | | | | | | | | | | | .28 | | | | | | | | .05 | | | 1.15 |
| Burnside[‖] | Cumberland | T. | .10 | | | | | | | | .26 | .32 | | | | | | | | | .06 | .02 | | | | | | | | | | | 0.76 |
| Cadiz | do | | | | | | | | | 1.30 | 2.05 | | | | | | | | | | | | | | | | | | | | | | 3.35 |
| Calhoun | Green | | | | | | | | | | .17 | | | | | | | | | | | | T. | | | | | | | | | .01 | 0.18 |
| Catlettsburg[‖] | Big Sandy | .04 | .10 | | | | .46 | | | | T. | | | | | | | | | | | .02 | | | | | | | | | | | 0.62 |
| Earlington[‖] | Green | | | | | | | | | | .37 | | | | | | | | | | | | | | | | | | | | | | 0.37 |
| Edmonton | do | | | | | | | | | .65 | .47 | | | | | | | | | T. | .20 | | | | | | | | | | | | 1.32 |
| Eubank[‖] | Cumberland | .03 | .06 | | | | | | | | .39 | .09 | | | | | | | | | | .18 | | | | | | | | | | | 0.75 |
| Falmouth[‖] | Licking | | | | | | .62 | | | | | | | | T. | | | | | | | .27 | | | | | | | | | | | 0.89 |
| Farmers | do | | .03 | | | .09 | .08 | | | .10 | | | | | T. | | | | | | T. | .16 | | | | | | | | | | T. | 0.46 |
| Frankfort[‖] | Kentucky | .01 | T. | | | T. | | | | | | | | | T. | | | | | | .17 | | T. | | | | | | | | | T. | 0.18 |
| Franklin | Green | T. | | | | | | | | 1.32 | T. | | | | | | | | T. | T. | .52 | | | | | | | | .18 | | | | 2.02 |
| Greensburg[‖] | do | .02 | .30 | | | .34 | | | | | .51 | .06 | | | | | | | | | | .44 | | | | | | | | | | | 1.67 |
| High Bridge[‖] | Kentucky | | .05 | | | | .20 | | | | .19 | .04 | | | | | | | | | | .35 | | | | | | | | | | | 0.83 |
| Hopkinsville | Cumberland | | | | | | | | | 1.20 | .55 | | | | | | | | .27 | | .10 | | | | | | | | | | | | 2.12 |
| Irvington | Ohio | | | | | | | | | | T. | | | | | | | | | | .07 | | T. | | | | | | | | | | 0.07 |
| Leitchfield | Green | | | | | | | | | | .25 | | | | | | | | | | .03 | | | | | | | | | | | | 0.28 |
| Lexington | Kentucky | .30 | | | | .01 | | | | | T. | | | | T. | | | | | | | T. | | | | | | | | | | T. | 0.46 |
| Loretto | Salt | | | | | | | | | | .08 | | | | | | | | | | .19 | | | | | | | | | | | | 0.27 |
| Louisville | Ohio | | | | | T. | | | | T. | | | | | | | | | | | .12 | | T. | | | | | | | | | T. | 0.12 |
| Marion | do | | | | | | | | | | .22 | | | | | | | | | | | | | | | | | | | | | T. | 0.22 |
| Maysville[‖] | do | .04 | | | | | .68 | | | | | | T. | | T. | | | | | | | .35 | | | | | | | | | | | | 1.07 |
| Middlesboro | Cumberland | | | | | | | | | .28 | .36 | | | | | | | | | | | | | | | | | | | | | | 0.64 |
| Mount Sterling[‖] | Licking | T. | T. | | | | .33 | T. | | | T. | .18 | T. | | | | | | | | T. | .51 | | | | | | | | | | T. | 1.02 |
| Owensboro[‖] | Ohio | | | | | | | | | | T. | | | | | | | | | | T. | | | T. | | | | | | | | | T. |
| Owenton | Kentucky | | | | | | .41 | | | | | | | | T. | | | | | | .08 | | | | | | | | | | | | 0.49 |
| Paducah[‖] | Ohio | | | | | | | | | .08 | .80 | | | | | | | | | | | T. | | | | | | | | | | | 0.88 |
| Pikeville[‖] | Big Sandy | .32 | | | | | | | | | .62 | .48 | | | | T. | | | | | | | | | | | | | | .02 | | | 1.44 |
| Richmond[‖] | Kentucky | .01 | .07 | | | | .12 | | | | .34 | .03 | | | | | | | | | T. | .04 | | | | | | | | T. | | | 0.61 |
| St. John[‖] | Salt | .01 | T. | | | | | | | | .19 | | | | | | | | | | .05 | .06 | | | | | | | | | | | 0.31 |
| Scott | Licking | | | | T. | .15 | .31 | | | | | T. | | | T. | | | | | | .32 | T. | T. | | | | | | | | | T. | 0.78 |
| Shelby City | Kentucky | | .23 | | | | | | | | .58 | | | | | | | | | T. | .02 | .09 | | | | | | | | | | | 0.92 |
| Shelbyville[‖] | Salt | | | | | | T. | | | | | | | | | | | | | | | .21 | | | | | | | | | | | 0.21 |
| Taylorsville | do | | .02 | | | T. | | | | | | | | | | | | | | | .06 | | | | | | | | | | | T. | 0.08 |
| Williamsburg[‖] | Cumberland | .10 | | | | | | | | | .36 | .23 | | | | | | | | | | | | | | | | | | | | | 0.69 |
| Williamstown[‖] | Licking | | | | | | .35 | | | | | | | | T. | | | | | | | .25 | | | | | | | | | | | 0.60 |
| *Indiana.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anderson | West Fork, White | T. | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. |
| Bloomington | do | T. | .04 | | | | T. | | | | | | | | | | | | | | | T. | T. | | | | | | | | T. | | 0.04 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 3*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Indiana*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluffton | Wabash | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | T. |
| Butlerville | East Fork, White | | | | | .11 | .12 | | | | | | | | T. | | | | | | .06 | | | | | | | | | | 0.29 |
| Cambridge City | Whitewater | | .01 | | | | .18 | | | | | | | | | | | | | .04 | | .01 | | | | | T. | | | | 0.24 |
| Columbus | East Fork, White | | | | | | .35 | | | | | | | | | | | | | | | | | | | | | | | | 0.35 |
| Connersville | Whitewater | | | T. | T. | T. | | | | | | T. | | | T. | | | | | | | | | | | | T. | | | | T. |
| Delphi | Wabash | .03 | T. | | | | | T. | | | | | | | | T. | | | | .02 | .07 | | | | | | T. | .09 | | .05 | .07 | 0.33 |
| Eminence | West Fork, White | T. | | | | T. | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | T. |
| Evansville | Ohio | | | | | | | | | | | | | | | | | | | | .01 | | T. | | | | | | | T. | T. | 0.01 |
| Farmersburg | Wabash | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Farmland | West Fork, White | | .02 | | | | | | | | | | | | T. | | | | | T. | | | | | | | | | | | | 0.02 |
| Greenfield | East Fork, White | | | | | | | | | | | | | | T. | | | | | | T. | | | | | | T. | | | T. | | T. |
| Greensburg | do | | | | T. | .04 | .14 | | | | | | | | T. | | | | | T. | .05 | | | | | | T. | | | | | 0.23 |
| Heltonville | do | | | | | | | | | | | | | .54 | | | | | | | T. | | | | | | | | | | | 0.54 |
| Huntingburg | Wabash | | | | | | | | | | | | | | | | | | | .01 | | | | | | | | | | | | 0.01 |
| Huntington | do | T. | | | | | | | | | | | .10 | | | | | | | .05 | T. | | | | | | | | | T. | T. | 0.15 |
| Indianapolis | West Fork, White | .02 | T. | T. | | | | | | | | T. | | | T. | | | | | | T. | | T. | | | | .05 | | | T. | | 0.07 |
| Jeffersonville | Ohio | | | | | .01 | | | | | | | | | | | | | | | .09 | | T. | | | | | | | | T. | 0.10 |
| Judyville | Wabash | T. | | T. | | | | | | | | T. | T. | | | | | | | | T. | | | | | | .23 | | | .08 | T. | 0.31 |
| Kokomo | do | | | | | | | | | | | | | | T. | | | | | T. | | | T. | | | | T. | | | | T. | T. |
| Lafayette | do | .01 | | T. | .08 | | | T. | | | | | T. | | T. | T. | | T. | | T. | .04 | | | | | T. | .03 | .06 | | .09 | .12 | 0.43 |
| Logansport | do | .06 | | | | | | | | | | | | | | | | | | | .11 | | | | | | | | | .03 | .14 | 0.34 |
| Madison | Ohio | | | | | .18 | .22 | | | | | | | | | | | | | | .14 | | T. | | | | | | | | T. | 0.54 |
| Marengo | do | | | | | .09 | | | | | | | | | | | | | | .02 | .39 | | T. | | | | | | | | T. | 0.50 |
| Marion | Wabash | | | | | | | | | | | | | | | | | | | | .05 | | | | | | | | | | | 0.05 |
| Markle | do | | T. | | | | T. | | | | | | T. | | | | | | | .30 | | | | | | | | | | T. | | 0.30 |
| Mauzy | East Fork, White | | | | | .02 | | | | | | | | | T. | | | | | | T. | | | | | | .02 | | | | | 0.04 |
| Moores Hill | Ohio | | | | .01 | .05 | .28 | | | | | | | | T. | | | | | | .45 | .01 | | | | | | | | | T. | 0.80 |
| Mount Vernon | do | T. | .02 | | | | | | | | | | | | | | | | | | | .08 | | | | | | | | .06 | | 0.16 |
| Paoli | East Fork, White | | | | | | | | | | | | | | | | | | | | .65 | | | | | | | | | | | 0.65 |
| Princeton | Wabash | | | | | | | | | | | | | | | | | | | | .20 | | | | | | | | | .10 | | 0.30 |
| Richmond | Whitewater | | | | T. | .03 | | | | | | | | | T. | | | | | | .03 | | | | | | | | | | | 0.06 |
| Rochester | Wabash | | | | | | | | | | | T. | T. | | T. | | | | | T. | | | | | | | T. | | | .01 | .26 | 0.27 |
| Rockville | do | T. | | | | .01 | | | | | | | | | | | | | | | T. | | | | | | T. | | | T. | | 0.01 |
| Rome | Ohio | | | | | | | | | | | | | | | | | | | | .09 | | T. | | | | | | | | .05 | 0.14 |
| Salamonia | Wabash | | | | | | | T. | | | | | | | | | | | | .18 | | | | | | | | | | | | 0.18 |
| Salem | Ohio | | | | | .10 | | | | | | | | | | | | | | T. | .09 | | T. | | | | | | | T. | | 0.19 |
| Scottsburg | East Fork, White | | | | | .15 | | | | | | | | | | | | | | | T. | | | | | | | | | | | 0.15 |
| Seymour | do | | | | | .10 | | | | | | | | | T. | | | | | .05 | .02 | | T. | | | | | | | | | 0.17 |
| Shelbyville | do | | T. | T. | | .01 | T. | | | | | | | | T. | | | | | .01 | T. | | T. | | | | .05 | | | T. | T. | 0.07 |
| Terre Haute | Wabash | T. | | | | .01 | | | | | | | | | | | | | | | | | | | | | .04 | | | .02 | | 0.07 |
| Veedersburg | do | .02 | .01 | T | | | | | | | | | | | | | | | | T. | .04 | | T. | | | | .21 | | | .10 | .12 | 0.50 |
| Vevay | Ohio | | | | | .20 | | | | | | | | | | T. | | | | | .20 | | | | | | | | | | | 0.40 |
| Vincennes | Wabash | T. | .05 | | | | | | | | | | | | | | | | | | T. | .10 | T. | | | | | | | T. | T. | 0.15 |
| Washington | West Fork, White | | .05 | | | | | | | | | | | | | | | | | | | .07 | | | | | | | | T. | .01 | 0.13 |
| Whitestown | do | T. | | | | | | | | | | | | | T. | | | | | T. | T. | | | | | | .11 | | | | | 0.11 |
| Winona Lake | Wabash | | | | | | | | | | | | | | T. | | | | | T. | .03 | | | | | | | | | T. | .14 | 0.17 |
| Worthington | West Fork, White | | T. | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | .02 | 0.02 |
| *Illinois.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Albion | Wabash | .02 | | | | | | | | | | | | | | | | | | | .11 | | | | | | | | | .05 | | 0.18 |
| Charleston | do | | | | | | | | | | | | | | | | | | | | .24 | | | | | | .11 | | | .05 | | 0.40 |
| Equality | do | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | T. | | T. |
| Fairfield | Ohio | T. | | | | | | | | | | | | | | | | | | | .08 | | | | | | | | | | | 0.08 |
| Flora | Wabash | T. | | | | | | | | | | | | | | | | | | | .12 | | | | | | | | | .05 | .07 | 0.24 |
| Golconda | Ohio | | | | | | | | | | .18 | | | | | | | | | | .05 | | | | | | | | | | .07 | 0.30 |
| Hooperston | Wabash | .02 | | .01 | .01 | | | | | | | | | | | | | | | T. | .09 | | | | | | .23 | | | .07 | .03 | 0.46 |
| McLeansboro | do | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Martinsville | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mt. Carmel‖ | do | | .06 | | | | | | | | | | | | | | | | | | | .18 | T. | | | | | | | .04 | T. | 0.28 |
| New Burnside | Ohio | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Olney | Wabash | T. | | | | | | | | | | | | | | | | | | | .17 | | | | | | | | | .10 | | 0.27 |
| Palestine | do | T. | | | | | | | | | | | | | | | | | | | .19 | | | | | | | | | T. | | 0.19 |
| Paris‖ | do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .13 | | | .10 | 0.23 |
| Philo | do | | | | | T. | | | | | | | | | | | | | | T. | .06 | | | | | | .12 | | | .05 | | 0.23 |
| Rantoul | do | T. | | | | | | | | | | | | | | | | | | T. | .06 | | | | | | .31 | | T. | .06 | | 0.43 |
| Robinson | do | | | .03 | | | | | | | | | | | | | | | .20 | | T. | | T. | | T. | | | | .07 | | | 0.32 |
| Sumner | do | | | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | .06 | | 0.23 |
| Tuscola‖ | do | | | | | | | | | | | | | | | | | | | T. | .10 | | | | | | .27 | | | .03 | | 0.40 |
| Urbana | do | | | | | | | | | | | | | | | | | | | .05 | .13 | | | | | | .17 | | | .03 | | 0.38 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 3, Ohio Valley.*

| Date. | Pennsylvania. | | | | West Virginia. | | | | | | | | Ohio. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Greenville. | | Pittsburg. | | Charleston. | | Elkhorn. | | Elkins. | | Glenville. | | Huntington.‖ | | Morgantown. | | Parkersburg. | | Wheeling.‖ | | Canton. | | Cincinnati. | | Columbus. | | Dayton. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 50 | 34 | 56 | 38 | 66 | 52 | 64 | 47 | 67 | 42 | 64 | 49 | 64 | 46 | 63 | 46 | 58 | 40 | 58 | 36 | 56 | 33 | 60 | 44 | 56 | 39 | 47 | 36 |
| 2 | 41 | 33 | 52 | 38 | 73 | 62 | 69 | 44 | 73 | 56 | 69 | 43 | 69 | 45 | 69 | 45 | 64 | 43 | 64 | 35 | 58 | 33 | 63 | 46 | 58 | 43 | 46 | 37 |
| 3 | 47 | 28 | 56 | 36 | 70 | 56 | 70 | 46 | 70 | 55 | 70 | 46 | 70 | 46 | 66 | 46 | 66 | 46 | 66 | 37 | 58 | 36 | 63 | 46 | 58 | 46 | 46 | 37 |
| 4 | 55 | 31 | 56 | 36 | 70 | 56 | 70 | 46 | 70 | 55 | 70 | 46 | 70 | 46 | 66 | 46 | 66 | 46 | 66 | 37 | 58 | 36 | 63 | 46 | 58 | 46 | 46 | 37 |
| 5 | 63 | 31 | 71 | 43 | 70 | 56 | 70 | 46 | 70 | 55 | 70 | 46 | 70 | 46 | 66 | 46 | 66 | 46 | 66 | 37 | 58 | 36 | 63 | 46 | 58 | 46 | 46 | 37 |
| 6 | 67 | 43 | 70 | 43 | 73 | 56 | 73 | 46 | 73 | 56 | 73 | 46 | 73 | 46 | 69 | 46 | 69 | 46 | 69 | 37 | 58 | 36 | 63 | 46 | 58 | 46 | 46 | 37 |
| 7 | 63 | 41 | 66 | 44 | 66 | 56 | 66 | 46 | 66 | 56 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 37 | 58 | 36 | 63 | 46 | 58 | 46 | 46 | 37 |
| 8 | 59 | 41 | 66 | 46 | 66 | 56 | 66 | 46 | 66 | 56 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 37 | 58 | 36 | 63 | 46 | 58 | 46 | 46 | 37 |
| 9 | 59 | 34 | 66 | 46 | 66 | 56 | 66 | 46 | 66 | 56 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 37 | 58 | 36 | 63 | 46 | 58 | 46 | 46 | 37 |
| 10 | 42 | 21 | 43 | 29 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 56 | 33 | 46 | 33 |
| 11 | 49 | 23 | 46 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 46 | 35 |
| 12 | 43 | 27 | 41 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 46 | 35 |
| 13 | 51 | 31 | 47 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 46 | 35 |
| 14 | 49 | 22 | 47 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 46 | 35 |
| 15 | 39 | 19 | 37 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 66 | 35 | 46 | 35 |
| 16 | 50 | 29 | 39 | 29 | 54 | 35 | 50 | 30 | 47 | 19 | 53 | 16 | 56 | 35 | 56 | 35 | 56 | 35 | 56 | 35 | 56 | 35 | 56 | 35 | 56 | 35 | 46 | 35 |
| 17 | 56 | 33 | 50 | 33 | 66 | 42 | 64 | 31 | 64 | 29 | 64 | 29 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 46 | 31 |
| 18 | 59 | 30 | 56 | 30 | 66 | 34 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 64 | 31 | 46 | 31 |
| 19 | 72 | 39 | 72 | 37 | 66 | 44 | 66 | 44 | 66 | 44 | 66 | 44 | 66 | 44 | 66 | 44 | 66 | 44 | 66 | 44 | 66 | 44 | 66 | 44 | 66 | 44 | 46 | 44 |
| 20 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 21 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 22 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 23 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 24 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 25 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 26 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 27 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 28 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 29 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 30 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| 31 | 72 | 46 | 72 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 46 | 46 |
| Mns | 58.3 | 29.0 | 58.9 | 38.7 | 68.3 | 40.8 | 64.9 | 36.9 | 61.8 | 33.5 | 68.1 | 34.6 | 66.1 | 35.7 | 63.8 | 39.5 | 63.4 | 36.4 | 64.1 | 32.2 | 57.2 | 33.7 | 65.4 | 42.7 | 61.2 | 39.0 | 63.6 | 37.2 |

| Date. | Tennessee. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Marion. | | Waverly. | | Big Stone Gap. | | Wytheville. | | Asheville, N. C. | | Decatur, Ala.‖ | | Chattanooga. | | Jonesboro. | | Knoxville. | | Nashville. | | Palmetto. | | Sparta. | | Waynesboro. | | Beattyville, Ky.‖ | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 64 | 46 | 64 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 | 66 | 46 |
| 2 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 3 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 4 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 5 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 6 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 7 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 8 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 9 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 10 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 11 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 12 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 13 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 14 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 15 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 16 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 17 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 18 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 19 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 20 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 21 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 22 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 23 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 24 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 25 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 26 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 27 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 28 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 29 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 30 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| 31 | 70 | 46 | 70 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 | 73 | 46 |
| Mns | 69.4 | 36.0 | 68.7 | 34.1 | 68.9 | 37.3 | 62.5 | 37.4 | 65.8 | 40.0 | 74.5 | 43.7 | 71.5 | 47.9 | 67.7 | 37.5 | 69.1 | 45.5 | 71.3 | 47.1 | 73.3 | 43.3 | 70.9 | 36.9 | 72.0 | 42.2 | 71.2 | 32.2 |

TABLE 3.—*Maximum and minimum temperature at selected stations, March, 1910. District No. 3*—Continued.

| Date. | Kentucky. | | | | | | | | | | | | | | Indiana. | | | | | | | | | | | | Ohio. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bowling Green. | | Earlington. | | Greensburg. | | Lexington. | | Louisville. | | Maysville. | | Williamsburg. | | Butlerville. | | Evansville. | | Indianapolis. | | Kokomo. | | Rockville. | | Worthington. | | Philo, Ill. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 73 | 40 | 61 | 33 | 71 | 40 | .4 | 45 | 59 | 46 | 66 | 37 | 69 | 42 | 60 | 40 | 56 | 41 | 53 | 37 | 50 | 34 | 41 | 34 | 57 | 34 | 43 | 32 |
| 2... | 67 | 42 | 66 | 41 | 66 | 43 | 57 | 45 | 64 | 46 | 62 | 36 | 67 | 48 | 60 | 42 | 59 | 41 | 49 | 35 | 45 | 33 | 50 | 35 | 54 | 40 | 51 | 34 |
| 3... | 75 | 39 | 73 | 41 | 77 | 32 | 65 | 44 | 67 | 43 | 65 | 32 | 73 | 38 | 64 | 35 | 68 | 46 | 56 | 35 | 50 | 34 | 53 | 31 | 64 | 34 | 54 | 32 |
| 4... | 81 | 40 | 80 | 41 | 79 | 32 | 73 | 45 | 77 | 43 | 72 | 31 | 78 | 36 | 73 | 41 | 75 | 50 | 69 | 42 | 64 | 32 | 56 | 41 | 73 | 38 | 68 | 35 |
| 5... | 85 | 46 | 81 | 54 | 81 | 36 | 73 | 52 | 75 | 54 | 69 | 42 | 81 | 38 | 68 | 47 | 74 | 55 | 69 | 49 | 65 | 35 | 69 | 46 | 74 | 42 | 70 | 40 |
| 6... | 84 | 52 | 80 | 58 | 80 | 34 | 77 | 42 | 77 | 46 | 78 | 38 | 83 | 40 | 57 | 44 | 72 | 46 | 69 | 38 | 69 | 36 | 68 | 40 | 73 | 49 | 65 | 36 |
| 7... | 63 | 35 | 60 | 39 | 70 | 30 | 52 | 35 | 55 | 40 | 54 | 35 | 60 | 37 | 51 | 35 | 55 | 38 | 46 | 34 | 48 | 34 | 48 | 33 | 53 | 35 | 47 | 32 |
| 8... | 69 | 31 | 67 | 32 | 67 | 25 | 58 | 34 | 62 | 35 | 60 | 26 | 66 | 26 | 57 | 26 | 62 | 40 | 50 | 2. | 44 | 23 | 51 | 25 | 57 | 27 | 52 | 24 |
| 9... | 46 | 40 | 44 | 36 | 48 | 25 | 45 | 33 | 46 | 34 | 47 | 27 | 46 | 31 | 43 | 27 | 45 | 37 | 43 | 29 | 42 | 22 | 42 | 25 | 42 | 27 | 42 | 26 |
| 10... | 49 | 34 | 52 | 32 | 42 | 32 | 45 | 32 | 51 | 39 | 50 | 29 | 42 | 38 | 52 | 35 | 50 | 37 | 47 | 30 | 45 | 24 | 47 | 26 | 54 | 29 | 44 | 25 |
| 11... | 62 | 25 | 60 | 26 | 58 | 24 | 51 | 28 | 57 | 33 | 55 | 22 | 60 | 30 | 55 | 29 | 55 | 35 | 53 | 31 | 51 | 21 | 51 | 25 | 58 | 25 | 56 | 23 |
| 12... | 59 | 36 | 54 | 29 | 59 | 24 | 55 | 38 | 57 | 40 | 62 | 22 | 63 | 29 | 55 | 41 | 51 | 37 | 53 | 32 | 52 | 30 | 53 | 33 | 55 | 26 | 53 | 33 |
| 13... | 74 | 33 | 71 | 32 | 71 | 27 | 64 | 35 | 67 | 39 | 68 | 30 | 68 | 28 | 58 | 40 | 69 | 42 | 59 | 37 | 57 | 38 | 61 | 36 | 65 | 35 | 60 | 35 |
| 14... | 49 | 35 | 46 | 34 | 59 | 28 | 37 | 24 | 43 | 27 | 41 | 28 | 42 | 29 | 50 | 27 | 48 | 33 | 37 | 23 | 40 | 25 | 44 | 24 | 41 | 30 | 42 | 24 |
| 15... | 51 | 20 | 48 | 22 | 47 | 23 | 40 | 18 | 45 | 23 | 45 | 20 | 44 | 22 | 44 | 17 | 43 | 24 | 41 | 19 | 43 | 16 | 45 | 18 | 47 | 17 | 45 | 15 |
| 16... | 63 | 24 | 65 | 26 | 60 | 18 | 56 | 27 | 61 | 32 | 58 | 20 | 61 | 20 | 60 | 29 | 61 | 36 | 58 | 30 | 55 | 30 | 61 | 30 | 63 | 21 | 62 | 30 |
| 17... | 74 | 39 | 71 | 45 | 70 | 17 | 61 | 41 | 67 | 45 | 65 | 25 | 68 | 28 | 66 | 31 | 67 | 44 | 63 | 36 | 59 | 25 | 64 | 30 | 68 | 29 | 65 | 26 |
| 18... | 72 | 34 | 74 | 37 | 75 | 27 | 69 | 47 | 72 | 41 | 73 | 28 | 72 | 29 | 71 | 34 | 71 | 45 | 68 | 43 | 68 | 28 | 63 | 39 | 73 | 30 | 72 | 34 |
| 19... | 73 | 39 | 73 | 42 | 69 | 27 | 67 | 47 | 70 | 50 | 72 | 28 | 68 | 37 | 68 | 44 | 69 | 50 | 68 | 48 | 69 | 36 | 68 | 44 | 72 | 35 | 72 | 40 |
| 20... | 70 | 42 | 72 | 49 | 70 | 39 | 66 | 46 | 70 | 50 | 66 | 33 | 71 | 38 | 71 | 47 | 69 | 48 | 66 | 45 | 68 | 49 | 56 | 47 | 71 | 42 | 66 | 39 |
| 21... | 77 | 42 | 73 | 48 | 70 | 39 | 62 | 38 | 67 | 43 | 63 | 32 | 73 | 44 | 67 | 36 | 68 | 47 | 64 | 38 | 65 | 28 | 54 | 37 | 71 | 38 | 70 | 31 |
| 22... | 78 | 39 | 80 | 41 | 74 | 33 | 71 | 44 | 77 | 44 | 73 | 30 | 76 | 37 | 76 | 45 | 75 | 52 | 75 | 49 | 72 | 46 | 70 | 49 | 79 | 41 | 80 | 48 |
| 23... | 90 | 51 | 88 | 53 | 86 | 33 | 80 | 54 | 82 | 50 | 85 | 34 | 84 | 40 | 85 | 45 | 84 | 59 | 80 | 46 | 79 | 35 | 84 | 41 | 85 | 45 | 85 | 37 |
| 24... | 91 | 50 | 90 | 53 | 89 | 33 | 85 | 58 | 88 | 56 | 89 | 39 | 87 | 43 | 87 | 57 | 86 | 60 | 84 | 60 | 85 | 52 | 85 | 57 | 88 | 49 | 87 | 49 |
| 25... | 83 | 56 | 82 | 55 | 86 | 43 | 74 | 60 | 79 | 59 | 81 | 40 | 85 | 45 | 80 | 57 | 79 | 59 | 76 | 57 | 76 | 38 | 72 | 52 | 83 | 51 | 78 | 37 |
| 26... | 87 | 48 | 87 | 48 | 83 | 30 | 77 | 53 | 78 | 50 | 71 | 35 | 88 | 41 | 77 | 50 | 78 | 58 | 64 | 51 | 71 | 32 | 67 | 50 | 71 | 46 | 70 | 48 |
| 27... | 90 | 49 | 88 | 52 | 86 | 39 | 84 | 58 | 87 | 54 | 87 | 34 | 87 | 43 | 86 | 54 | 84 | 62 | 84 | 52 | 84 | 49 | 84 | 55 | 88 | 49 | 85 | 46 |
| 28... | 82 | 54 | 87 | 57 | 81 | 44 | 83 | 61 | 87 | 66 | 88 | 43 | 85 | 41 | 85 | 61 | 84 | 63 | 82 | 63 | 83 | 49 | 84 | 55 | 85 | 54 | 85 | 49 |
| 29... | 89 | 55 | 85 | 66 | 86 | 47 | 83 | 62 | 85 | 65 | 86 | 49 | 88 | 49 | 83 | 62 | 80 | 65 | 78 | 60 | 77 | 55 | 76 | 59 | 79 | 57 | 77 | 52 |
| 30... | 87 | 62 | 80 | 67 | 85 | 51 | 80 | 60 | 81 | 68 | 85 | 51 | 83 | 50 | 80 | 63 | 74 | 65 | 74 | 58 | 75 | 60 | 73 | 59 | 75 | 60 | 76 | 57 |
| 31... | 65 | 56 | 59 | 53 | 69 | 50 | 61 | 53 | 69 | 54 | 62 | 52 | 74 | 48 | 76 | 48 | 65 | 53 | 61 | 46 | 68 | 42 | 70 | 42 | 67 | 50 | 66 | 39 |
| Mns | 72.8 | 41.5 | 70.9 | 43.3 | 71.4 | 33.4 | 65.0 | 43.8 | 68.5 | 45.6 | 67.7 | 33.2 | 70.7 | 37.2 | 66.6 | 41.6 | 67.0 | 47.4 | 62.5 | 41.3 | 61.9 | 35.2 | 61.6 | 39.3 | 67.3 | 38.2 | 64.1 | 35.7 |

# Climatological Data for March, 1910.

## DISTRICT No. 4, LAKE REGION.

Prof. HENRY J. COX District Editor

### GENERAL SUMMARY.

In many of its features March, 1910, was unprecedented throughout practically every portion of Climatological District No. 4. The excessive warmth, the extreme dryness both as regards precipitation and relative humidity, the large number of clear days with bright sunshine, the early disappearance of snow and ice, the light wind movement, and the absence of serious storms, make a history for the month without parallel since the beginning of the official records. Never since the Weather Bureau was established has there been such an early opening of spring. With the exception of the northern Lake region and the highlands of the Adirondack and Green mountains, the snow had all melted before the close of the first decade. The frost was out of the ground soon after, as, owing to the continued protection of the snow covering during the entire winter, it had extended to a much less depth than usual. By the end of the month some spring plowing had been done in the southern sections of the district, and the planting of early vegetables in many localities had been completed. Shrubbery buds were beginning to swell even in the extreme northern portions, while throughout the remainder of the district the hardier of the deciduous trees were leafing out, meadow lands were green with the new growth of grass, and early wild flowers were in bloom. Roads had become dusty as a result of the deficient precipitation, abundance of sunshine, and high temperatures. The extreme conditions of precipitation and temperature seriously retard the flow of sap from the sugar maples of the Vermont section, and the total output of sugar and sirup for the season was much less than the average. As a whole, the conditions prevailing at the close of the month were those usually experienced from 3 to 5 weeks later.

### TEMPERATURE.

The mean temperatures of the month were far above the normals throughout the entire district. The departures increased quite regularly from east to west, ranging from an average of +8.2° over the Vermont and New York portions to +14.5° in the Lake Superior region. As a matter of fact, the monthly mean temperatures along the western shore of Lake Michigan, and in portions of the Upper Michigan Peninsula, actually exceeded the normal temperatures for April. At Milwaukee, Wis., the excess of the mean temperature of March, 1910, over the April normal was 2.4°, while at Chicago, Ill., the excess was 2.7° Over western Superior, Lower Michigan, and the Indiana and Ohio portions of the district, the March mean temperatures approached on the average to within 1.5° of the respective April normals, the differences increasing thence eastward to about 6° in the Champlain Valley.

A warm area passed across the district during the first 6 days of the month, when maximum temperatures far above the average for the season were recorded generally. A period of cooler weather lasting until the 18th followed, with nearly normal daily temperatures, although, as a rule, the departures were positive on most days of the interval. The lowest temperatures of the month were recorded generally on the 7–10th over the northwestern portions, on the 15th over the central sections, on the 15–18th in New York State, and on the 18th in the Champlain Basin. During the month zero temperatures, or lower, occurred at but 11 stations in the area bordering on Lake Superior. The lowest temperature in this portion of the district was −5°, recorded on the 9th at Ewen, in the Upper Peninsula of Michigan. The coldest weather of the month, however, occurred in the highlands of New York State on the 18th, when temperatures of from −9° to −17° were recorded, as follows: Old Forge, Trudeau, and Tupper Lake, −9°; Raquette Lake, −10°; Gabriels, −16°; Nehasane, −17°.

Following the passage of this area of comparatively cool weather, excessively high temperatures set in, and prevailed until the close of the month. The highest temperatures were recorded generally during the last 3 days of the period over the northern, western, and extreme eastern sections, but the maximum heat was reached in many places over the Indiana, Ohio, and New York portions on the 24th. At most stations new records for high March temperatures were established, and readings of between 80° and 90° were general in all parts of the district, except Minnesota, Vermont, and the highlands of New York. As a rule, however, even in these latter sections unseasonably high temperatures were experienced. The following are the maximums for that portion of each State lying within the confines of the district: Mount Iron, Minn., 76°; Fondulac, Oshkosh, Pine River, and Waupaca, Wis., 83°; Chicago, Ill., 81°; Elkhart and Fort Wayne, Ind., 86°; Iron River, Upper Michigan, 83°; Lapeer, Lower Michigan, 89°; New Bremen, Ohio, 88°; Erie, Pa., 82°; Shortsville, N. Y., 84°; and Cornwall, Vt., 72°.

### PRECIPITATION.

The precipitation was greatly deficient, not a single station receiving an amount in excess of its normal. In fact, the month in general was the driest March of which there is any authentic record. The deficiency amounted to more than 1.50 inch from the middle of the Lower Michigan Peninsula northward, and to considerable more than 2 inches over the southern and eastern portions of the district. The drought conditions were acute by the end of the month, especially over the extreme southwestern sections, where the deficiency in precipitation of the previous month had broken all records for February.

Four Michigan stations—Blaney, Ludington, Mount Pleasant, and Montague—were entirely without rainfall or snowfall during the whole period, while 25 per cent of the stations west and north of Ohio received not more than 0.01 inch. Westward from New York State no station received more than 1 inch; and in New York and Vermont, at but 18 stations out of 57 did rain or snow in excess of this amount fall.

In point of time, what precipitation did occur was well distributed, but the individual falls were, of course, very light. Only one 24-hour fall of more than 1 inch occurred, this being 2 inches on the 20th, at Lake Placid Club, N. Y. The greatest 24-hour falls were generally less than 0.25 inch from Ohio westward and northward, and from 0.40 to 0.70 inch over the remainder of the district.

### SNOW AND FLOODS.

The entire district had been continuously blanketed with snow since early in December, 1909, and during the week previous to the opening of March the depth on the ground ranged from 3 inches over the extreme southwestern portions to over 40 inches on the Lake Superior shore, and to over 50 inches to the leeward of Lake Ontario. The warm weather of the last few days of February and the first week of March, however, rapidly melted the snow covering along the southwestern limits of the district, and reduced the depths by nearly one-half over the remaining sections. By the 15th the measurable depths were confined almost entirely to Upper Michigan, northeastern New York, and northern Vermont, and by the end of the month even the peaks of the Green Mountains showed but a thin covering.

The snowfall for the past winter over the Lake Erie region was at many stations unprecedented. As the first heavy fall in

December followed immediately a prolonged period of warm weather, the ground underneath the blanket was not frozen to any great depth, and therefore became thoroughly saturated as a result of the January thaws. Consequently, when the extremely heavy snows of February began to melt rapidly under the influence of the high temperatures which ushered in the present month, the discharge was altogether by run-off to the frozen river courses. These conditions resulted in moderate freshets in the rivers of the southern portion of Lower Michigan on the 6–10th, while flood stages in the Maumee and Sandusky rivers occurred during the first days of the month. Ice gorges formed in these two rivers and added considerably to the danger of the situation.

Speaking of the freshets in the Lower Michigan Peninsula, Mr. C. F. Schneider, section director at Grand Rapids, says:

> The Grand reached flood stage in its upper stretches on the 5th and in the lower stretches on the 6th and 7th. The crest of the flood, 12.4 feet, passed Grand Rapids on the 8th, and was 1.8 foot above flood stage. This flood caused some loss and inconvenience to merchants who were forced to the expense of moving goods out of basements which were subject to flooding at the stages reached.
>
> The Saginaw reached flood stage at a few stations—the highest reading at Saginaw being just flood stage, 19.1 feet, on the 9–10th.

The following extract from the report of Mr. Montrose W. Hayes, section director, Columbus, Ohio, summarizes the flood conditions of the Maumee and Sandusky rivers:

> *Maumee.*—At Fort Wayne, Ind., the river passed the flood stage (15 feet) on the 28th, going to 15.6 feet. On March 1 it fell to 14.9 feet, but it rose rapidly on the night of the 1st–2d and reached a stage of 16.4 at 8 a. m. of the 2d. After this the rise was gradual to a stage of 17.5 on the forenoon of the 4th; it fell then and passed below the flood stage the night of the 6–7th.
>
> At Defiance the flood stage (15 feet) was not reached; the highest reading was 13.4 on March 1.
>
> At Napoleon the ice broke up on the night of the 25–26th and the reading was 2.7 at 8 a. m. of the 26th. The water rose to a stage of 18.8 on the 2d (passing the flood stage, 13 feet, late on the 28th). There was very little change on the 2d and first half of the 3d, but on the night of the 3d–4th a rapid fall set in and at 8 a. m. of the 4th the gage reading was 10.8.
>
> Houses and industrial plants on low ground were inundated in most of the towns and cities along the river. The greatest damage seems to have been done at Defiance when a gorge in the Auglaize moved and carried with it the $50,000 Francis Street Bridge. No loss of life was reported.
>
> *Sandusky.*—The rise at Tiffin was from 1.8 on the 25th to a maximum of 8.5 on the 2d; the water was above the flood stage (7 feet) from the afternoon of the 28th to the night of the 2–3d.
>
> At Fremont on the 25th and 26th the stage was 4.5. It was 6.5 on the morning of the 27th. On the morning of the 28th it was 14.7 (4.7 feet above the flood stage). This rapid rise was caused by gorging ice. The maximum stage was 15.8 on March 1. On the night of the 3d–4th there was a fall to a point slightly below the flood stage.
>
> At Tiffin the section known as Mechanicsburg was entirely under water and only the roofs of some of the lower houses were visible. At Fremont 300 houses were surrounded by water and some damage was done by ice. No loss of life was reported. It would be difficult to make any reliable estimate of the amount of loss in money to persons, firms, and corporations, but it is believed to have been great. Steam and electric railway traffic was interfered with and considerable inconvenience was experienced by those dependent upon gas for light and fuel.

The rapid melting of the snow during the first 6 days of March also caused flood conditions in the Genessee River of New York State. There was, however, no damage reported from the high water. Flood conditions were also approached in the Winooski River of Vermont during the first few days of the month, and for a time danger was apprehended at Montpelier. By the use of dynamite, however, the ice was broken up and started toward the lake, thus relieving the situation.

### ICE IN THE GREAT LAKES.

On March 1 the amount of ice reported in Lakes Superior, Michigan, and Erie was greater than at the same time in 1909, and in Huron and Ontario apparently somewhat less. Extensive fields were visible at most stations, and many of the harbors were frozen solid, except where the channels had been kept open by ice breakers and by blasting. During the warm weather of the succeeding weeks, however, the ice honeycombed rapidly and the fields steadily decreased.

On the 28th the ice moved out of the Straits of Mackinaw, making the earliest opening since 1893; while Lake St. Clair and the Detroit River were free after the 22d. By the end of the month navigation had been resumed at many ports where winter traffic had not been maintained.

### OPENING OF NAVIGATION.

The following dates, reported by Weather Bureau officials, mark the opening of navigation at ports on the Great Lakes which do not maintain winter traffic, and from which vessels cleared during the month of March:

| | |
|---|---|
| Oswego | March 24 |
| Rochester | March 18 |
| Erie | March 25 |
| Sandusky | March 19 |
| Toledo | March 18 |
| Detroit | March 28 |
| Port Huron | March 22 |
| Alpena | March 12 |
| Green Bay | March 31 |

TABLE 1.—*Climatological data for March, 1910. District No. 4, Lake Region.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Minnesota.* | | | | | | | | | | | | | | | | | | | | |
| Cloquet | Carlton | 892 | | | | | | | | | | | | | | | | | | C. I. McNair. |
| Duluth | St. Louis | 1,133 | 39 | 37.4 | +13.3 | 70 | 28 | 11 | 9 | 34 | 0.44 | − 1.11 | 0.31 | 3.1 | 5 | 11 | 15 | 5 | ne. | U. S. Weather Bureau. |
| Floodwood | do | 1,257 | 6 | | | | | | | | | | | | | | | | | M. H. Schussler. |
| Mount Iron | do | 1,510 | 16 | 38.4 | +16.8 | 76 | 23 | 4 | 2 | 44 | 0.16 | − 1.29 | 0.06 | 0.5 | 3 | 8 | 17 | 6 | nw. | Oliver Iron Mining Co. |
| Stephens Mine | do | 1,500 | 3 | 36.2 | | 74 | 29 | − 4 | 2† | 45 | 0.24 | | 0.13 | 0.7 | 4 | 13 | 12 | 6 | sw. | Do. |
| Two Harbors | Lake | 614 | 16 | 38.1 | +13.5 | 71 | 21† | 9 | 9 | 43 | 0.40 | − 1.07 | 0.40 | T. | 1 | 20 | 11 | 0 | w. | George W. Watts. |
| *Wisconsin.* | | | | | | | | | | | | | | | | | | | | |
| Appleton | Outagamie | 795 | 11 | 42.1 | +11.7 | 80 | 29 | 12 | 7 | 43 | 0.33 | − 1.79 | 0.20 | 1.8 | 3 | 25 | 4 | 2 | sw. | Wm. O. Thiede. |
| Ashland | Ashland | 647 | 16 | 39.9 | +16.9 | 78 | 23 | 12 | 9 | 49 | T. | − 1.58 | T. | T. | 0 | 26 | 2 | 3 | sw. | Sam Wheeler. |
| Cecil | Shawano | 804 | 3 | 40.2 | | 80 | 29 | 6 | 10† | 41 | 0.26 | | 0.12 | T. | 4 | 11 | 20 | 0 | sw. | Louis W. Schmidt. |
| Chilton | Calumet | 860 | 16 | 42.7[a] | +11.9 | 82[a] | 29 | 12[a] | 9 | 34[a] | 0.14 | − 1.99 | 0.05 | 1.0 | 3 | 14[a] | 15[a] | 1[a] | sw. | Daniel V. Jones. |
| Crandon | Forest | 1,060 | 15 | 37.3 | +11.0 | 68 | 29† | 0 | 3 | 41 | 0.25 | − 1.23 | 0.20 | 2.3 | 2 | 27 | 3 | 1 | s. | Calvin T. H. Riggs. |
| Florence | Florence | 1,293 | 19 | 37.3 | +13.3 | 79 | 29 | 6 | 9† | 42 | 0.17 | − 1.83 | 0.10 | 1.0 | 2 | 21 | 3 | 7 | nw. | Fred S. Evans. |
| Fond du Lac | Fond du Lac | 800 | 24 | 42.1 | +11.2 | 83 | 29 | 13 | 3† | 38 | 0.20 | − 1.41 | 0.10 | 1.0 | 2 | 23 | 5 | 3 | sw. | Geo. W. Marshall. |
| Grand River Locks | Marquette | 616 | 14 | 43.4 | | 82 | 29 | 9 | 9 | 41 | 0.02 | − 2.22 | 0.02 | 0.5 | 1 | 27 | 2 | 2 | sw. | Jerry Parkinson. |
| Green Bay | Brown | 617 | 24 | 41.4 | +14.6 | 82 | 29 | 16 | 8 | 36 | 0.19 | − 2.21 | 0.08 | 1.2 | 4 | 12 | 13 | 6 | sw. | U. S. Weather Bureau. |
| Herbster | Bayfield | 700 | 2 | | | | | | | | | | | | | | | | | Wm. Angell. |
| Iron River | do | 1,096 | 1 | 41.0 | | 79 | 29 | 11 | 9 | 41 | 0.23 | | 0.10 | 2.0 | 3 | 15 | 10 | 6 | sw. | Harry C. Hall. |
| Kewaunee | Kewaunee | 590 | 1 | 39.4 | | 78 | 28 | 16 | 15 | 43 | 0.39 | | 0.24 | 2.9 | 3 | 22 | 6 | 3 | s. | Eugene V. Kimball. |
| Manitowoc | Manitowoc | 616 | 59 | 40.6 | +12.1 | 73 | 24 | 17 | 9 | 32 | 0.11 | − 1.95 | 0.05 | T. | 3 | 19 | 7 | 5 | s. | Johanna Lupe. |
| Menasha | Winnebago | 764 | 13 | | | | | | | | 0.14 | − 1.69 | 0.10 | 0.8 | 2 | 25 | 4 | 2 | sw. | George T. Allanson. |
| Menominee Falls | Waukesha | 842 | 1 | 42.4 | | 81 | 29 | 13 | 10 | 37 | 0.08 | | 0.08 | T. | 1 | 20 | 8 | 3 | sw. | Arthur H. Christman. |
| Milwaukee | Milwaukee | 681 | 40 | 44.2 | +13.3 | 81 | 29 | 20 | 7 | 38 | 0.05 | − 2.62 | 0.03 | T. | 2 | 19 | 8 | 4 | w. | U. S. Weather Bureau. |
| New London | Outagamie | 762 | 14 | 42.3 | +13.6 | 82 | 29 | 12 | 9† | 41 | 0.12 | − 2.21 | 0.12 | T. | 1 | 17 | 8 | 6 | nw. | August H. Pape. |
| Oconto | Oconto | 590 | 19 | 40.4 | +11.3 | 77 | 29 | 12 | 10 | 34 | 0.16 | − 2.05 | 0.10 | 2.0 | 2 | 18 | 12 | 1 | s. | William K. Smith. |
| Oshkosh | Winnebago | 744 | 21 | 43.2 | +13.0 | 83 | 29 | 13 | 9 | 41 | T. | − 1.82 | T. | T. | 0 | 27 | 2 | 2 | sw. | Evan Vincent. |
| Pine River | Waushara | 900 | 15 | 43.4 | +14.3 | 83 | 29 | 14 | 9† | 45 | 0.01 | − 1.77 | 0.01 | T. | 1 | 11 | 18 | 2 | sw. | George H. Carpenter. |
| Plum Island | Door | 588 | 2 | 37.0 | | 71 | 24† | 13 | 9 | 34 | 0.30 | | 0.08 | | 7 | 12 | 8 | 11 | s. | John P. Whelan. |
| Port Washington | Ozaukee | 713 | 17 | 43.6 | +12.5 | 80 | 27 | 20 | 8† | 40 | 0.05 | − 2.64 | 0.05 | T. | 1 | 20 | 7 | 4 | se. | Richard C. Kann. |
| Racine | Racine | 633 | 13 | 43.8 | + 9.6 | 81 | 27 | 18 | 15 | 42 | 0.72 | − 2.10 | 0.67 | T. | 3 | 22 | 4 | 5 | sw. | Daniel Davis. |
| Sheboygan | Sheboygan | 831 | 12 | 43.0 | +10.3 | 75 | 28 | 19 | 7 | 31 | 0.10 | − 2.31 | 0.05 | 0.5 | 2 | 16 | 10 | 5 | sw. | Louis C. Meyer. |
| Sturgeon Bay | Door | 600 | 12 | 37.8 | +11.3 | 72 | 28 | 8 | 10† | 34 | 0.19 | | 0.11 | 3.0 | 3 | 17 | 12 | 2 | s. | Adam N. Dier. |
| Superior | Douglas | 671 | 1 | 36.8 | | 70 | 28† | 13 | 9† | 37 | 0.34 | | 0.34 | 3.5 | 1 | 14 | 16 | 1 | sw. | Edward B. Banks. |
| Waupaca | Waupaca | 857 | 14 | 42.6 | +13.7 | 83 | 29 | 9 | 9† | 47 | 0.10 | − 2.01 | 0.10 | T. | 1 | 19 | 6 | 6 | sw. | James H. Flagg. |
| *Illinois.* | | | | | | | | | | | | | | | | | | | | |
| Chicago | Cook | 824 | 40 | 48.6 | +14.2 | 81 | 27 | 26 | 15 | 36 | 0.29 | − 2.26 | 0.24 | T. | 3 | 18 | 11 | 2 | sw. | U. S. Weather Bureau. |
| *Indiana.* | | | | | | | | | | | | | | | | | | | | |
| Auburn | DeKalb | 874 | 14 | 44.6 | + 7.5 | 84 | 24 | 13 | 15 | 49 | 0.13 | − 2.41 | 0.08 | | 2 | 16 | 2 | 13 | sw. | Mrs. Josie B. Kuhlman |
| Berne | Adams | 849 | .... | 48.5 | | 85 | 24 | 16 | 15 | 41 | 0.02 | | 0.02 | T. | 1 | 17 | 14 | 0 | nw. | H. M. Reusser. |
| Elkhart‡ | Elkhart | 801 | 8 | 49.4 | | 86 | 24 | 19 | 15 | 39 | 0.42 | | 0.15 | T. | 3 | 22 | 7 | 2 | sw. | Dr. Miles Medical Co. |
| Fort Wayne | Allen | 775 | 14 | 48.4 | + 9.5 | 86 | 24 | 16 | 15 | 45 | 0.02 | − 3.58 | 0.02 | T. | 1 | 19 | 11 | 1 | sw. | Orion E. Mohler. |
| Hammond | Lake | 598 | 19 | 47.6 | +10.5 | 82 | 26 | 18 | 15 | 42 | 0.11 | − 2.50 | 0.11 | 0.0 | 1 | 18 | 5 | 8 | ..... | Carson W. Whitney. |
| Howe | Lagrange | 886 | 5 | 45.8 | | 84 | 24† | 16 | 15 | 49 | 0.73 | | 0.53 | 0.0 | 2 | 24 | 2 | 5 | w. | James E. Zook. |
| South Bend | St. Joseph | 726 | 17 | 47.0 | +10.0 | 84 | 24 | 16 | 15 | 44 | 0.43 | − 2.54 | 0.26 | T. | 3 | 12 | 9 | 10 | s. | Henry H. Swaim. |
| Whiting | Lake | 606 | .... | 50.8 | | 84 | 24 | 26 | 15 | 44 | 0.22 | | 0.12 | T. | 3 | 23 | 5 | 3 | w. | D. H. Boyd. |
| *Michigan—Upper Peninsula.* | | | | | | | | | | | | | | | | | | | | |
| Baraga | Baraga | 623 | 8 | 38.8 | | 81 | 29 | 4 | 9 | 51 | 0.15 | | 0.15 | 1.5 | 1 | 23 | 0 | 8 | sw. | D., S. S. & A. Ry. |
| Bergland | Ontonagon | 1,300 | .... | 37.4 | | 80 | 29 | − 4 | 9 | 49 | 0.19 | | 0.09 | T. | 3 | 20 | 6 | 5 | sw. | Frank McMonigal. |
| Blaney | Schoolcraft | | 3 | 32.0 | | 65 | 24† | 10 | 7† | 44 | 0.00 | | 0.00 | 0.0 | 0 | 16 | 15 | 0 | sw. | Dr. S. S. Hackwell. |
| Calumet | Houghton | 1,246 | 22 | 35.4 | +13.1 | 73 | 29 | 6 | 7 | 36 | 0.28 | − 1.33 | 0.16 | 0.5 | 5 | 17 | 12 | 2 | w. | E. S. Grierson. |
| Chatham | Alger | 875 | 9 | 35.4 | | 77 | 29 | − 2 | 10 | 42 | 0.54 | | 0.18 | 4.3 | 8 | 15 | 9 | 7 | nw. | U. P. Experiment Station |
| Deer Park | Luce | 610 | 9 | | | | | | | | | | | | | | | | | Mrs. Sara E. McGaw. |
| Detour | Chippewa | 585 | 9 | | | | | | | | 0.22 | | 0.20 | 2.0 | 2 | 16 | 14 | 1 | sw. | Dr. F. E. Cameron. |
| Eagle Harbor | Keweenaw | 622 | 11 | 35.5 | +10.3 | 70 | 30 | − 1 | 10 | 34 | 0.07 | − 1.61 | 0.04 | T. | 2 | 18 | 12 | 1 | w. | John Nolen. |
| Escanaba | Delta | 612 | 37 | 35.6 | +12.1 | 75 | 24 | 12 | 15 | 36 | 0.27 | − 1.68 | 0.14 | 2.0 | 6 | 15 | 8 | 8 | s. | U. S. Weather Bureau. |
| Ewen | Ontonagon | 1,147 | 9 | 36.2 | | 79 | 29 | − 5 | 9 | 45 | 0.24 | | 0.12 | 1.0 | 4 | 8 | 17 | 6 | sw. | W. B. Hatfield. |
| Grand Marais | Alger | 610 | 9 | 35.8 | | 68 | 28 | 12 | 14† | 28 | 0.20 | | 0.10 | 1.5 | 3 | 24 | 2 | 5 | s. | Mrs. Lena Truedell. |
| Houghton | Houghton | 668 | 9 | 36.4 | +12.6 | 78 | 27 | 7 | 10 | 43 | 0.49 | − 1.61 | 0.27 | 1.3 | 9 | 11 | 18 | 2 | w. | U. S. Weather Bureau. |
| Humboldt | Marquette | 1,536 | 13 | | | | | | | | | | | | | 15[c] | 2[c] | 11[c] | w. | D., S. S. & A. Ry. |
| Iron Mountain | Dickinson | 1,111 | 9 | 40.5[a] | | 81[a] | 30 | 12[a] | 9† | 41[a] | 0.11 | | 0.05 | 1.5 | 3 | 22 | 8 | 1 | sw. | Chapin Mining Co. |
| Iron River | Iron | 1,504 | 13 | 38.2 | +15.9 | 83 | 30 | 0 | 3† | 44 | 0.90 | − 1.49 | 0.40 | 1.0 | 3 | 23 | 6 | 2 | nw. | Victor D. Laing. |
| Ironwood | Gogebic | 1,520 | 7 | 39.6 | | 78 | 29 | 12 | 8 | 40 | 0.04 | | 0.04 | T. | 1 | 26 | 5 | 0 | w. | Prof. J. V. Brennan. |
| Ishpeming | Marquette | 1,536 | 10 | 37.7[f] | +16.5 | 78[f] | 29 | 4[f] | 3 | 38[f] | 0.51 | − 2.11 | 0.30 | 1.1 | 4 | 14 | 15 | 2 | w. | Cliv'd. Cliffs Iron Co. |
| Isle Royale | Keweenaw | 610 | 3 | | | | | | | | | | | | | | | | | John H. Malone. |
| Mackinac Island | Mackinac | 831 | 10 | | | | | | | | | | | | | | | | | M. I. S. P. Com. |
| Maple Ridge | Delta | | 4 | 36.0 | | 77 | 29 | 0 | 10† | 45 | 0.30 | | 0.20 | 2.0 | 2 | 21 | 7 | 3 | s. | Herman Johnson. |
| Marquette | Marquette | 734 | 39 | 38.2 | +14.5 | 82 | 15 | 15 | 14 | 37 | 0.21 | − 1.87 | 0.07 | 1.0 | 7 | 5 | 21 | 5 | w. | U. S. Weather Bureau. |
| Menominee | Menominee | 581 | 11 | 38.0 | + 9.8 | 69 | 19† | 14 | 2 | 34 | 0.10 | − 1.56 | 0.10 | 1.0 | 1 | 27 | 0 | 4 | sw. | C. & N. W. Ry. |
| Newberry | Luce | 773 | 8 | 34.4[a] | | 72[b] | 27 | − 4 | 10 | 46[b] | 0.10 | | 0.10 | 1.0 | 1 | 15 | 10 | 6 | sw. | D., S. S. & A. Ry. |
| Powers | Menominee | 868 | 11 | | | 81 | 29 | | | | 0.10 | − 1.70 | 0.10 | 1.0 | 1 | 13 | 17 | 1 | sw. | C. & N. W. Ry. |
| St. Ignace | Mackinac | 593 | 20 | 34.8 | +10.3 | 69 | 30† | 8 | 14 | 33 | 0.38 | − 1.35 | 0.15 | 2.2 | 9 | 16 | 10 | 5 | sw. | D., S. S. & A. Ry. |
| Sault Ste. Marie | Chippewa | 614 | 22 | 30.4 | + 9.1 | 64 | 24 | − 1 | 2 | 36 | 0.30 | − 1.55 | 0.10 | 1.3 | 7 | 11 | 4 | 16 | w. | U. S. Weather Bureau. |
| Thomaston | Gogebic | 1,347 | 13 | 38.2 | +15.5 | 78[a] | 29 | − 4 | 9 | 42[a] | 0.05 | − 1.77 | 0.05 | 0.5 | 1 | 18 | 9 | 4 | n. | D., S. S. & A. Ry. |
| Victoria | Ontonagon | 1,263 | .... | 38.4 | | 80 | 29 | 5 | 9 | 43 | 0.11 | | 0.07 | 0.5 | 3 | 19 | 11 | 1 | sw. | R. S. Schultz, jr. |
| Watersmeet | Gogebic | | 1 | 37.5 | | 78 | 29 | − 3 | 9 | 42 | 0.17 | | 0.09 | 1.1 | 2 | 16 | 12 | 3 | sw. | B. N. Grant. |
| Wetmore | Alger | 878 | 13 | 36.4 | +14.4 | 77 | 29 | − 2 | 10 | 43 | 0.30 | − 1.45 | 0.30 | 3.0 | 1 | 22 | 0 | 9 | n. | D., S. S. & A. Ry. |
| Whitefish Point | Chippewa | 610 | 20 | 30.5 | +10.6 | 62 | 24 | 1 | 17 | 34 | 0.42 | − 1.86 | 0.22 | 2.0 | 3 | 16 | 4 | 11 | nw. | Robert Carlson. |
| *Michigan—Lower Peninsula.* | | | | | | | | | | | | | | | | | | | | |
| Adrian | Lenawee | 770 | 32 | 46.8 | +13.8 | 85 | 28 | 15 | 15 | 50 | 0.24 | − 2.24 | 0.19 | 0.5 | 2 | 7 | 14 | 10 | s. | B. F. Gibbs. |
| Agricultural College | Ingham | 820 | 46 | 44.0 | +12.7 | 82 | 24 | 15 | 15 | 40 | 0.40 | − 1.98 | 0.20 | 1.0 | 3 | 22 | 9 | 0 | s. | Prof. A. J. Patten. |
| Allegan | Allegan | 698 | 19 | 47.0 | +13.0 | 81 | 28† | 14 | 15 | 38 | 0.19 | − 2.18 | 0.19 | T. | 1 | 13 | 12 | 6 | w. | Pere Marquette R. R. |
| Alma | Gratiot | 750 | 23 | 44.2 | +14.1 | 83 | 29 | 13 | 14 | 37 | 0.13 | − 2.39 | 0.08 | T. | 2 | 16 | 10 | 5 | sw. | P. M. Smith. |
| Alpena | Alpena | 609 | 37 | 37.4 | +12.4 | 81 | 29 | 9 | 15 | 39 | 0.44 | − 1.60 | 0.26 | 0.8 | 8 | 13 | 6 | 12 | w. | U. S. Weather Bureau. |
| Ann Arbor | Washtenaw | 930 | 30 | 44.1 | +12.3 | 83 | 24 | 15 | 15 | 46 | 0.48 | − 1.74 | 0.42 | 0.3 | 4 | 13 | 9 | 9 | se. | University of Michigan. |
| Arbela | Tuscola | 728 | 14 | 43.8 | +12.2 | 81 | 24 | 17 | 14 | 33 | 0.41 | − 2.21 | 0.41 | T. | 1 | 4 | 20 | 7 | se. | Wm. Atkin. |
| Battle Creek | Calhoun | 832 | 26 | 45.2 | +11.9 | 82 | 24 | 15 | 15 | 40 | 0.51 | − 1.86 | 0.21 | T. | 4 | 21 | 7 | 3 | s. | Elmer E. Sager. |
| Bay City | Bay | 593 | 14 | 42.6 | +10.5 | 82 | 24 | 14 | 15 | 40 | T. | − 3.17 | T. | T. | 0 | 11 | 17 | 3 | sw. | Pere Marquette R. R. |
| Benzonia | Benzie | 832 | 14 | 40.8 | +12.7 | 78 | 29 | 14 | 15 | 37 | 0.19 | − 2.39 | 0.15 | 0.5 | 2 | 14 | 9 | 8 | sw. | Martin S. Joiner. |
| Berlin | St. Clair | | 21 | 41.4 | +10.7 | 81 | 24 | 13 | 15 | 47 | 0.52 | − 1.73 | 0.34 | T. | 3 | 6 | 20 | 5 | nw. | R. O. Gould. |
| Big Rapids | Mecosta | 906 | 14 | 40.7 | +11.1 | 82 | 29 | 10 | 9† | 40 | 0.60 | − 2.75 | 0.30 | T. | 4 | 20 | 6 | 5 | sw. | Charles Gay. |
| Bloomingdale | Van Buren | | 6 | 45.4 | | 81 | 24 | 13 | 15 | 54 | 0.30 | | 0.30 | T. | 1 | 25 | 4 | 2 | se. | John M. Haven. |
| Cadillac | Wexford | 1,293 | 1 | 39.4 | | 80 | 29 | 10 | 15 | 34 | 0.15 | | 0.15 | 1.0 | 1 | 14 | 11 | 6 | sw. | A. J. Teed. |
| Cassopolis | Cass | 903 | 9 | 46.0 | | 82 | 24 | 15 | 15 | 37 | 0.20 | | 0.10 | 0.0 | 2 | 25 | 0 | 6 | sw. | Michigan Central R. R. |
| Charlevoix | Charlevoix | 610 | 23 | 35.8[b] | + 9.4 | 70[a] | 24 | 10 | 14 | 30[a] | 0.02 | − 1.86 | 0.02 | T. | 1 | 14 | 13 | 4 | sw. | Pere Marquette R. R. |
| Charlotte | Eaton | | 6 | 44.5 | | 82 | 24 | 14 | 15 | 40 | 0.06 | | 0.06 | T. | 1 | 17 | 9 | 5 | sw. | City of Charlotte. |

TABLE 1.—*Climatological data for March, 1910. District No. 4*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Michigan—Lower Peninsula*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Cheboygan | Cheboygan | 611 | 20 | 33.9 | + 8.5 | 76 | 30 | 6 | 10† | 36 | 0.55 | − 1.57 | 0.55 | T. | 1 | 13 | 14 | 4 | sw | E. A. Bouchard. |
| Clinton | Lenawee | 830 | 20 | 45.6 | + 9.8 | 83 | 24 | 15 | 15 | 50 | 0.38 | − 2.05 | 0.23 | 0.0 | 2 | 17 | 13 | 1 | nw. | David Woodward. |
| Coldwater | Branch | 984 | 13 | 47.2[a] | +10.9 | 83[a] | 24 | 14[a] | 15 | 38[a] | 0.22[a] | − 2.82[a] | 0.12[a] | 0.0 | 2[a] | 23[a] | 5[a] | 2[a] | sw.[a] | Lake Shore & Mich. So. Ry. |
| Concord | Jackson | ..... | 5 | 45.0 | ..... | 82 | 24 | 14 | 15 | 38 | 0.15 | ..... | 0.15 | 0.0 | 1 | 17 | 14 | 0 | sw. | Dr. W. N. Armstrong. |
| Croton | Newago | 685 | 2 | 41.8 | ..... | 77 | 29 | 11 | 15 | 37 | 0.25 | ..... | 0.25 | T. | 1 | 11 | 18 | 2 | sw. | G. R.-Muskegon Power Co. |
| Detroit | Wayne | 730 | 39 | 44.0 | +11.1 | 81 | 24 | 17 | 15 | 40 | 0.38 | − 1.99 | 0.34 | 0.1 | 4 | 14 | 11 | 6 | e. | U. S. Weather Bureau. |
| Durand | Shiawassee | 799 | 3 | 44.8 | ..... | 82 | 24 | 14[a] | 15 | 40[a] | 0.48 | ..... | 0.31 | T. | 2 | 25 | 6 | 0 | w. | Grand Trunk Ry. |
| East Tawas | Iosco | 590 | 13 | 38.2 | + 8.5 | 77 | 24 | 11 | 15 | 39 | 0.33 | − 2.58 | 0.15 | 0.0 | 3 | 29 | 1 | 1 | sw. | Detroit & Mackinac Ry. |
| Eloise | Wayne | 640 | 13 | 44.4 | + 9.3 | 81 | 24 | 15 | 15 | 46 | 0.34 | − 2.08 | 0.32 | T. | 2 | 17 | 18 | 6 | w. | John Gilmore. |
| Flint | Genesee | 739 | 21 | 44.4 | +13.5 | 84 | 24 | 15 | 15 | 40 | 0.62 | − 1.28 | 0.30 | 0.0 | 4 | 20 | 7 | 4 | s. | Wm. L. Fisher. |
| Frankfort | Benzie | 589 | 6 | 38.4 | ..... | 69 | 27 | 12 | 15 | 32 | 0.30 | ..... | 0.30 | 0.0 | 1 | 18 | 0 | 13 | s. | Capt. Geo. Morency. |
| Ganges | Allegan | 665 | 1 | 44.2 | ..... | 79 | 29 | 16 | 14 | 34 | 0.42 | ..... | 0.26 | T. | 2 | 26 | 1 | 4 | sw. | H. H. Hutchins. |
| Gaylord | Otsego | 1,367 | 5 | 36.8 | ..... | 70 | 29 | 8 | 14 | 38 | 0.10 | ..... | 0.10 | T. | 1 | 18 | 0 | 13 | sw. | Michigan Central R. R. |
| Gladwin | Gladwin | 794 | 14 | 40.0 | +11.7 | 82 | 29 | 10 | 15 | 43 | T. | − 2.17 | T. | 0.0 | 0 | 25 | 4 | 2 | s. | Geo. R. Smith. |
| Grand Haven | Ottawa | 628 | 29 | 41.8 | +11.0 | 72 | 27 | 17 | 15 | 35 | 0.21 | − 1.30 | 0.11 | 0.4 | 5 | 18 | 8 | 5 | s. | U. S. Weather Bureau. |
| Grand Rapids | Kent | 707 | 21 | 45.0 | +12.0 | 82 | 29 | 17 | 15 | 35 | 0.08 | − 2.44 | 0.04 | T. | 3 | 14 | 8 | 9 | sw. | Do |
| Grape | Monroe | 625 | 20 | 45.0 | +10.4 | 84 | 24 | 16 | 15 | 51 | 0.22 | − 2.04 | 0.15 | T. | 2 | 11 | 19 | 1 | sw. | Joseph W. Morris. |
| Grass Lake | Jackson | 989 | 4 | 44.6 | ..... | 84 | 25 | 21 | 9† | 54 | 0.11 | ..... | 0.06 | T. | 2 | 27 | 2 | 2 | sw. | Menzo Conklin. |
| Grayling | Crawford | 1,147 | 21 | 39.2 | +14.5 | 73 | 28 | 2 | 10 | 44 | 0.40 | − 1.62 | 0.30 | 4.0 | 2 | 21 | 9 | 1 | nw. | Dr. Oscar Palmer. |
| Harbor Beach | Huron | 635 | 22 | 40.2 | +10.9 | 84 | 29 | 12 | 15 | 42 | 0.20 | − 1.41 | 0.20 | 0.0 | 1 | 25 | 1 | 5 | s. | Pere Marquette R. R. |
| Harrison | Clare | 1,159 | 17 | 41.0 | +14.8 | 82 | 29 | 8 | 10 | 39 | 0.46 | − 1.58 | 0.46 | T. | 1 | 6 | 22 | 3 | sw. | Do. |
| Harrisville | Alcona | 616 | 26 | 38.8 | +12.5 | 81 | 24 | 9 | 15 | 42 | 0.66 | − 2.02 | 0.20 | 1.5 | 5 | 17 | 7 | 7 | sw. | Dr. D. W. Mitchell. |
| Hart | Oceana | 698 | 18 | 40.4 | +10.0 | 71 | 28† | 16 | 9† | 30 | T. | − 2.32 | T. | 0.0 | 0 | 25 | 6 | 0 | s. | Pere Marquette R. R. |
| Hayes | Huron | 620 | 20 | 40.0 | +10.0 | 80 | 25† | 10 | 16 | 44 | 0.15 | − 2.11 | 0.15 | 0.0 | 1 | 27 | 0 | 4 | nw. | C. F. Leipprandt. |
| Highland | Oakland | 830 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.74 | − 1.78 | 0.24 | 2.5 | 4 | ..... | ..... | ..... | ..... | A. D. De Garmo. |
| Hillsdale | Hillsdale | 1,150 | 13 | 45.0 | +11.3 | 82 | 24 | 14 | 15 | 40 | 0.07 | − 3.12 | 0.07 | T. | 1 | 22 | 3 | 6 | sw. | Prof. C. L. Herron. |
| Holland | Ottawa | 610 | 4 | 42.2 | ..... | 79 | 27† | 14 | 15 | 34 | 0.14 | ..... | 0.07 | T. | 3 | 15 | 12 | 4 | sw. | City of Holland. |
| Howell | Livingston | 924 | 18 | 44.0[d] | +11.4 | 81[d] | 24 | 12[d] | 15 | 47[d] | 0.65 | − 1.47 | 0.35 | 0.0 | 3 | 19[d] | 5[d] | 3[d] | sw. | Frank Sharp. |
| Ivan | Kalkaska | ..... | 21 | 38.4 | +11.8 | 82 | 29 | 3 | 10† | 37 | 0.12 | − 1.85 | 0.10 | 1.0 | 3 | 13 | 11 | 7 | sw. | O. L. Giddings. |
| Jackson | Jackson | 927 | 13 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Michigan Central R. R. |
| Jeddo | St. Clair | 667 | 21 | 40.8 | +10.4 | 77 | 24 | 16 | 15 | 34 | 0.74 | − 1.11 | 0.41 | 0.4 | 6 | 17 | 8 | 6 | sw. | William Bice. |
| Kalamazoo | Kalamazoo | 955 | 34 | 46.7 | +13.9 | 83 | 24 | 12 | 15 | 38 | 0.35 | − 2.16 | 0.15 | 6.5 | 4 | 22 | 6 | 3 | s. | Kalamazoo Asylum. |
| Lansing | Ingham | 881 | 23 | 45.0 | +13.0 | 83 | 24 | 15 | 15 | 40 | 0.55 | − 1.86 | 0.21 | 0.3 | 4 | 19 | 7 | 5 | se. | State Board of Health. |
| Lapeer | Lapeer | 827 | 11 | 44.3 | +10.1 | 89 | 27 | 14 | 15 | 48 | 0.31 | − 1.64 | 0.31 | T. | 1 | 11 | 18 | 2 | sw. | Michigan Home. |
| Ludington | Mason | 586 | 12 | 41.4[d] | + 9.8 | 72[d] | 29 | 16[d] | 15 | 35[d] | 0.00[d] | − 2.08[d] | 0.00[d] | 0.0[d] | 0[d] | 22[d] | 4[d] | 1[d] | sw. | Pere Marquette R. R. |
| Luther | Lake | 1,028 | ..... | 40.0 | ..... | 83 | 29 | 4 | 9† | 41 | 0.06 | ..... | 0.06 | 2.0 | 1 | 20 | 7 | 4 | sw. | John W. Nichoson. |
| Mackinaw | Cheboygan | 592 | 14 | 34.8 | + 9.0 | 75 | 30 | 6 | 15 | 40 | 0.22 | − 1.96 | 0.20 | 2.2 | 2 | 24 | 1 | 6 | nw. | Grand Rapids & Ind. R. |
| Mancelona | Antrim | 1,121 | 14 | 37.6 | +10.4 | 81 | 29 | 5 | 10† | 36 | T. | − 1.73 | T. | T. | 0 | 23 | 6 | 2 | s. | Do. |
| Manistee | Manistee | 600 | 13 | 42.2 | +12.3 | 80 | 29 | 13 | 10 | 40 | T. | − 2.25 | T. | 0.0 | 0 | 23 | 7 | 1 | sw. | Pere Marquette R. R. |
| Midland | Midland | 604 | 11 | 44.5 | +11.6 | 81 | 29† | 16 | 16 | 41 | 0.01 | − 1.75 | 0.01 | 0.0 | 1 | 15 | 12 | 4 | sw. | Do. |
| Montague | Muskegon | 660 | 7 | 40.2 | ..... | 72 | 27 | 14 | 2† | 36 | 0.00 | ..... | 0.00 | 0.0 | 0 | 12 | 10 | 9 | sw. | Gerard A. Whitbeck. |
| Morenci | Lenawee | 811 | 3 | 46.8 | ..... | 83 | 24† | 15 | 15 | 49 | 0.08 | ..... | 0.06 | 0.0 | 2 | 20 | 6 | 5 | sw. | George J. Tripp. |
| Mount Clemens | Macomb | 615 | 10 | 42.6 | + 9.8 | 80 | 24† | 16 | 15 | 48 | 0.15 | − 1.78 | 0.15 | 0.0 | 1 | 13 | 9 | 9 | sw. | Herman Orbits. |
| Mount Pleasant | Isabella | 826 | 11 | 41.8 | +11.7 | 78 | 24 | 12 | 16 | 56 | 0.00 | − 2.48 | 0.00 | 0.0 | 0 | 20 | 3 | 8 | sw. | Pere Marquette R. R. |
| Muskegon | Muskegon | 587 | 14 | 41.5 | + 9.5 | 72 | 27† | 15 | 15 | 34 | T. | − 2.48 | T. | T. | 0 | 16 | 5 | 10 | s. | Grand Rapids & Ind. Ry. |
| Old Mission | Grand Traverse | 848 | 16 | 38.4[b] | + 9.7 | 80[b] | 29 | 11[b] | 14† | 39[b] | 0.16[b] | − 2.26[b] | 0.16[b] | 0.0[b] | 1[b] | 12[b] | 10[b] | 7[b] | sw.[b] | E. O. Ladd. |
| Olivet | Eaton | 934 | 20 | 43.7 | +11.4 | 80 | 24 | 13 | 15 | 37 | 0.76 | − 1.80 | 0.46 | 0.2 | 4 | 25 | 1 | 5 | w. | Prof. G. A. Knapp. |
| Omer | Arenac | 616 | 11 | 39.5 | +11.4 | 81 | 25† | 14 | 9 | 51 | T. | − 2.50 | T. | T. | 0 | 0 | 22 | 9 | sw. | Detroit & Mackinac Ry. |
| Onaway | Presque Isle | 826 | 7 | 31.6 | ..... | 64 | 25 | 7 | 12 | 40 | 0.15 | ..... | 0.10 | 0.5 | 2 | 4[f] | 5[f] | 16[f] | sw. | Do. |
| Ovid | Clinton | 760 | 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Geo. B. Faxon. |
| Owosso | Shiawassee | 731 | 13 | 45.8 | +13.4 | 83 | 24 | 15 | 15 | 47 | 1.00 | − 1.61 | ..... | 0.0 | 2 | 12 | 15 | 4 | sw. | Owosso Sugar Co. |
| Petoskey | Emmet | 660 | 20 | 36.8 | +10.2 | 77 | 29 | 9 | 14 | 34 | 0.39 | − 1.65 | 0.15 | T. | 5 | 19 | 8 | 4 | w. | Grand Rapids & Ind. Ry. |
| Plymouth | Wayne | 725 | 13 | 44.6[a] | +10.4 | 84[a] | 24 | 16[a] | 14 | 55[a] | T.[a] | − 2.42[a] | T.[a] | T.[a] | 0[a] | 22[a] | 4[a] | 4[a] | sw.[a] | Pere Marquette R. R. |
| Pontiac | Oakland | 935 | 10 | 43.8 | +11.9 | 81 | 24 | 15 | 15 | 42 | 0.38 | − 1.90 | 0.32 | 0.2 | 3 | 23 | 5 | 3 | sw. | Fred W. Shaw. |
| Port Austin | Huron | 618 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Pere Marquette R. R. |
| Port Huron | St. Clair | 639 | 35 | 41.8 | +12.2 | 77 | 28 | 17 | 15 | 38 | 0.41 | − 2.03 | 0.27 | 0.2 | 4 | 9 | 10 | 12 | sw. | U. S. Weather Bureau. |
| Reed City | Osceola | 1,033 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.05 | − 2.17 | 0.05 | 0.5 | 1 | 19 | 6 | 6 | w. | Pere Marquette R. R. |
| Roscommon | Roscommon | 1,141 | 6 | 35.1[d] | ..... | 81[d] | 29 | 0[d] | 15 | 46[d] | T.[d] | ..... | T.[d] | T.[d] | 0[d] | 15[d] | 7[d] | 5[d] | w.[d] | William Marsh. |
| Saginaw | Saginaw | 601 | 8 | 45.2 | ..... | 82 | 24† | 16 | 15 | 38 | 0.17 | ..... | 0.10 | T. | 2 | 15 | 15 | 1 | sw. | Postmaster. |
| Saginaw, W. S. | ....do | 601 | 15 | 44.0 | +11.5 | 83 | 24 | 14 | 15 | 39 | 0.22 | − 2.70 | 0.10 | 0.2 | 4 | 17 | 12 | 2 | sw. | Robert B. Hudson. |
| St. James | Charlevoix | 681 | 4 | 34.8 | ..... | 72 | 30 | 10 | 2† | 40 | 0.05 | ..... | 0.05 | 0.5 | 1 | 15 | 7 | 9 | sw. | Rev. N. Wilhelm. |
| St. Johns | Clinton | 779 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | City of St. Johns. |
| St. Joseph | Berrien | 593 | 23 | 44.5 | + 8.5 | 78 | 29 | 18 | 15 | 41 | T. | − 2.52 | T. | 0.0 | 0 | 26 | 4 | 1 | sw. | City of St. Joseph. |
| Sandusky | Sanilac | 790 | 1 | 41.3 | ..... | 82 | 24 | 14 | 15 | 47 | 0.38 | ..... | 0.22 | 0.0 | 3 | 20 | 10 | 1 | e. | Pere Marquette R. R. |
| Saranac | Ionia | 639 | 15 | 44.1 | +15.4 | 83 | 29 | 12 | 15 | 48 | 0.32 | − 1.26 | 0.16 | T. | 3 | 14 | 9 | 8 | sw. | John Wallington. |
| South Haven | Van Buren | 585 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Mrs. M. E. De Diemar. |
| Stanton | Montcalm | 880 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | City of Stanton. |
| Thornville | Lapeer | 975 | 33 | 42.3 | +10.7 | 80 | 24 | 12 | 15 | 38 | 0.99 | − 1.23 | 0.65 | 2.0 | 3 | 11 | 16 | 4 | w. | Dr. J. S. Caulkins. |
| Traverse City | Grand Traverse | 588 | 13 | 37.4 | + 8.4 | 82 | 29 | 13 | 15 | 34 | ..... | ..... | ..... | ..... | ..... | 22 | 1 | 8 | s. | Grand Rapids & Ind. Ry. |
| Vassar | Tuscola | 641 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | T. | 0 | 4 | 22 | 5 | sw. | Pere Marquette R. R. |
| Wasepi | St. Joseph | 842 | 13 | 45.6 | +10.8 | 83 | 24 | 14 | 15 | 37 | 0.88 | − 2.88 | 0.45 | 0.0 | 4 | 28 | 0 | 3 | sw. | Chas. A. Palmer. |
| Webberville | Ingham | 884 | 8 | 44.6 | ..... | 82 | 24 | 20 | 14 | 42 | 0.51 | ..... | 0.26 | T. | 4 | 15 | 14 | 2 | sw. | I. R. Wadsworth. |
| West Branch | Ogemaw | 973 | 7 | 32.1[e] | ..... | 84[e] | 28 | 8[d] | 13 | 52[d] | T.[e] | ..... | T. | T.[e] | 0[e] | 17[e] | 8[e] | 3[e] | s. | Michigan Central R. R. |
| Woodlawn | Montmorency | ..... | 8 | 33.0 | ..... | 80 | 30 | − 5 | 15 | 49 | 0.65 | ..... | 0.31 | 3.0 | 4 | 19 | 3 | 9 | w. | T. C. Mathews. |
| Ypsilanti | Washtenaw | 736 | 25 | 43.8 | +10.6 | 81 | 24† | 15 | 15 | 46 | 0.30 | − 2.20 | 0.30 | 0.0 | 1 | 8 | 23 | 0 | sw. | Orin J. Bemiss. |
| *Ohio.* | | | | | | | | | | | | | | | | | | | | |
| Akron | Summit | 1,081 | 23 | 46.6 | +10.0 | 82 | 24 | 20 | 11† | 34 | 0.49 | − 2.74 | 0.30 | 1.3 | 8 | 16 | 3 | 12 | s. | Prof. C. R. Olin. |
| Benton Ridge | Hancock | 800 | 17 | 48.0 | + 9.4 | 83 | 24 | 23 | 11 | 37 | 0.44 | − 2.61 | 0.42 | T. | 2 | 17 | 11 | 3 | sw. | J. W. Powell. |
| Bowling Green | Wood | 670 | 30 | 46.6 | + 9.2 | 83 | 24 | 16 | 15 | 41 | 0.25 | − 3.35 | 0.25 | 0.0 | 1 | 17 | 10 | 4 | sw. | G. C. Houskeeper. |
| Bucyrus | Crawford | 1,000 | 15 | 45.8 | + 7.9 | 82 | 24 | 14 | 15 | 38 | 0.60 | − 2.39 | 0.60 | T. | 1 | 18 | 7 | 6 | sw. | James R. Hopley. |
| Cleveland (1) | Cuyahoga | 762 | 39 | 44.6 | +10.4 | 83 | 24 | 22 | 14 | 33 | 0.41 | − 2.38 | 0.13 | 2.7 | 6 | 12 | 14 | 5 | sw. | U. S. Weather Bureau. |
| Cleveland (2)§ | ....do | 754 | 13 | 45.0 | + 8.0 | 82 | 24 | 23 | 15 | 34 | 0.25 | − 2.51 | 0.09 | 1.8 | 4 | 17 | 8 | 6 | w. | Rev. F. L. Odenbach, S. J. |
| Defiance | Defiance | 712 | 16 | 47.4 | + 9.6 | 85 | 24 | 15 | 15 | 50 | 0.09 | − 2.87 | 0.09 | T. | 1 | 30 | 1 | 0 | sw. | John F. Heilshorn. |
| Findlay | Hancock | 776 | 21 | 46.5 | + 8.7 | 85 | 24 | 15 | 15 | 43 | 0.27 | − 2.77 | 0.22 | 0.0 | 2 | 19 | 9 | 3 | sw. | Dr. E. A. Moser. |
| Fremont§ | Sandusky | 628 | 9 | 48.4 | ..... | 85 | 24 | 17 | 15 | 43 | 0.20 | ..... | 0.20 | T. | 1 | 21 | 7 | 3 | sw. | E. Stanley Thomas. |
| Hedges | Paulding | 725 | 16 | 47.8 | + 9.4 | 85 | 28 | 14 | 15 | 45 | 0.29 | − 2.93 | 0.25 | 0.0 | 2 | 16 | 15 | 0 | sw. | Charles Stutzman. |
| Hillhouse | Lake | 997 | 18 | 44.8 | + 9.9 | 83 | 24 | 16 | 11† | 41 | 0.31 | − 2.67 | 0.24 | 0.5 | 3 | 21 | 10 | 0 | w. | J. W. Doncaster. |
| Hiram | Portage | 1,260 | 26 | 45.8 | +11.9 | 81 | 24 | 19 | 14† | 34 | 0.23 | − 3.02 | 0.09 | 1.0 | 4 | 12 | 16 | 3 | nw. | Prof. G. H. Colton. |
| Hudson | Summit | 1,153 | 49 | 45.2 | + 8.7 | 83 | 24 | 16 | 11 | 40 | 0.69 | − 2.48 | 0.37 | 2.0 | 4 | 22 | 7 | 2 | s. | Dr. W. I. Chamberlain. |
| Lima | Allen | 875 | 11 | 47.7 | + 6.7 | 85 | 27 | 15 | 16 | 39 | 0.13 | − 3.68 | 0.13 | 0.0 | 1 | 26 | 4 | 1 | w. | Miss Ollie De Long. |
| Medina | Medina | 944 | 22 | 46.6 | + 9.3 | 84 | 28 | 15 | 11 | 44 | 0.48 | − 2.56 | 0.36 | 2.0 | 2 | 19 | 10 | 2 | s. | F. W. Clark. |
| Montpelier | Williams | 880 | 18 | 47.3 | +12.6 | 84 | 24 | 15 | 15 | 47 | 0.18 | − 2.71 | 0.18 | T. | 1 | 24 | 5 | 2 | w. | G. L. Laser. |
| Napoleon | Henry | 680 | 24 | 48.0 | + 9.9 | 84 | 24† | 17 | 15 | 45 | 0.20 | − 2.44 | 0.20 | T. | 1 | 26 | 3 | 2 | w. | A. C. Senter. |
| New Bremen | Auglaize | 1,038 | 17 | 50.4 | +10.0 | 88 | 24 | 18 | 15 | 46 | 0.02 | − 3.27 | 0.02 | 0.0 | 1 | 17 | 14 | 0 | nw. | Miss Lillian Grothaus. |
| North Royalton | Cuyahoga | 1,000 | 18 | 45.9 | + 9.0 | 82 | 24 | 19 | 11† | 35 | 0.50 | − 2.86 | 0.25 | 1.5 | 4 | 20 | 7 | 4 | nw. | W. S. Edgerton. |
| Norwalk | Huron | 719 | 24 | 48.3 | +10.7 | 85 | 24 | 17 | 15 | 40 | 0.29 | − 2.75 | 0.29 | T. | 1 | 27 | 1 | 3 | s. | Dr. Albert Sheldon. |

TABLE 1.—*Climatological data for March, 1910. District No. 4*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Ohio*—Cont'd. | | | | | | | | | | | | | | | | | | | |
| Oberlin | Lorain | 855 | 35 | 46.6 | +10.9 | 84 | 24 | 17 | 11 | 40 | 0.27 | − 2.11 | 0.22 | 2.0 | 2 | 15 | 10 | 6 | ne. | Prof. F. F. Jewett. |
| Ottawa | Putnam | 720 | 18 | 47.7 | + 9.0 | 85 | 24 | 16 | 15 | 42 | 0.25 | − 3.03 | 0.25 | 0.0 | 1 | 3 | 26 | 2 | sw. | Prof. J. T. Maidlow. |
| Rome | Ashtabula | 894 | 3 | | | | | | | | | | | | | | | | | G. H. Crosby. |
| Sandusky | Erie | 629 | 33 | 45.6 | +10.4 | 85 | 24 | 21 | 15 | 37 | 0.28 | − 2.27 | 0.27 | 0.1 | 2 | 15 | 11 | 5 | sw. | U. S. Weather Bureau. |
| Tiffin | Seneca | 775 | 28 | 47.2 | +10.3 | 83 | 24 | 16 | 15 | 33 | 0.37 | − 2.99 | 0.21 | T. | 3 | 15 | 15 | 1 | s. | Prof. T. H. Sonnedecker. |
| Toledo (1) | Lucas | 769 | 39 | 46.6 | +11.8 | 83 | 24 | 18 | 15 | 37 | 0.05 | − 2.23 | 0.04 | 0.1 | 2 | 22 | 8 | 1 | sw. | U. S. Weather Bureau. |
| Toledo (2)‖ | do | 606 | 6 | 46.5 | | 84 | 24 | 12 | 15 | 43 | 0.04 | | 0.03 | T. | 2 | 19 | 6 | 6 | n. | J. A. Krance, S. J. |
| Upper Sandusky | Wyandot | 854 | 27 | 49.2 | +11.9 | 84 | 24 | 16 | 15 | 37 | 0.45 | − 2.82 | 0.40 | 0.0 | 2 | 16 | 13 | 2 | sw. | Prof. R. J. Kiefer. |
| Vickery | Sandusky | 588 | 17 | 46.1 | + 8.6 | 85 | 24 | 17 | 15 | 50 | 0.32 | − 2.45 | 0.19 | 0.5 | 4 | 12 | 18 | 1 | ne. | John W. Barr. |
| Wauseon | Fulton | 780 | 38 | 46.2 | +11.7 | 84 | 24 | 13 | 15 | 41 | 0.12 | − 3.30 | 0.09 | 0.1 | 3 | 16 | 11 | 4 | s. | Thomas Mikesell. |
| Wellington | Lorain | 856 | 16 | 47.3 | + 8.9 | 84 | 24 | 17 | 15 | 41 | 0.29 | − 2.78 | 0.18 | 1.0 | 4 | 14 | 14 | 3 | sw. | W. D. Warren. |
| Willoughby | Lake | 649 | 16 | | | | | | | | 0.31 | − 2.68 | 0.20 | 2.0 | 2 | 6 | 16 | 9 | w. | C. J. Richardson. |
| *Pennsylvania.* | | | | | | | | | | | | | | | | | | | | |
| Erie | Erie | 713 | 37 | 43.0 | + 9.9 | 82 | 24 | 19 | 15 | 32 | 0.53 | − 2.13 | 0.34 | 1.4 | 7 | 10 | 16 | 5 | w. | U. S. Weather Bureau. |
| *New York.* | | | | | | | | | | | | | | | | | | | | |
| Adams Center | Jefferson | 540 | 19 | 38.6 | + 9.3 | 74 | 31 | 10 | 15† | 40 | 2.53 | − 1.14 | 0.50 | 15.0 | 10 | 12 | 11 | 8 | w. | A. E. Cooley |
| Angelica | Allegany | 1,340 | 27 | 38.4* | + 8.0 | 76* | 24† | 12* | 18* | 43* | 0.54 | − 2.37 | 0.25 | 3.0 | 4 | 8 | 15 | 8 | w. | Charles P. Arnold. |
| Appleton | Niagara | 270 | 19 | 39.6 | + 7.3 | 77 | 24 | 17 | 14† | 47 | 0.97 | − 1.04 | 0.70 | 0.5 | 5 | 13 | 11 | 7 | w. | H. A. Van Wagoner. |
| Auburn | Cayuga | 715 | 41 | 36.9 | + 3.9 | 76 | 24 | 15 | 18 | 41 | 0.30 | − 2.11 | 0.18 | 1.0 | 4 | 23 | 6 | 2 | n. | A. H. Underwood. |
| Avon | Livingston | 585 | 15 | 40.6 | + 6.5 | 80 | 29 | 12 | 14 | 47 | 0.04 | − 1.86 | 0.02 | T. | 2 | 18 | 6 | 7 | | W. G. Markham. |
| Benson Mines | St. Lawrence | | 2 | | | | | | | | | | | | | | | | | R. C. Folger. |
| Blue Mountain Lake | Hamilton | 1,750 | 10 | | | | | | | | 1.69 | − 1.84 | 0.57 | 8.5 | 7 | 26 | 3 | 2 | w. | B. F. Merwin. |
| Brockport | Monroe | 537 | 14 | 41.0 | + 9.1 | 79 | 29 | 13 | 15 | 46 | 0.83 | − 1.97 | 0.34 | 4.0 | 7 | 17 | 8 | 6 | w. | W. H. Lennon. |
| Buffalo | Erie | 767 | 59 | 39.7 | + 8.5 | 72 | 29 | 15 | 15 | 32 | 0.68 | − 1.94 | 0.34 | 3.2 | 6 | 12 | 11 | 8 | sw. | U. S. Weather Bureau. |
| Canton | St. Lawrence | 448 | 16 | 35.6 | + 7.9 | 72 | 24 | 4 | 17 | 44 | 1.40 | − 1.44 | 0.46 | 5.5 | 10 | 10 | 12 | 9 | sw. | Do. |
| Cape Vincent | Jefferson | 246 | 5 | 34.8 | | 65 | 24† | 9 | 16 | 30 | 1.26 | | 0.95 | | 4 | 18 | 10 | 3 | sw. | Verne M. Rice. |
| Carvers Falls | Washington | 243 | 12 | 36.1 | + 6.6 | 75 | 29 | 4 | 18 | 43 | 0.65 | − 2.75 | 0.28 | 0.0 | 4 | 23 | 3 | 5 | s. | Washburn Fancher. |
| Chasy | Clinton | 151 | 10 | 35.7 | + 7.5 | 68 | 30 | 4 | 17† | 34 | 0.15 | − 1.10 | 0.10 | 1.0 | 3 | 20 | 3 | 8 | s. | W. R. North. |
| Dannemora | Clinton | 1,490 | 5 | 35.1 | | 70 | 24 | − 1 | 17 | 44 | 0.95 | | 0.40 | 3.0 | 7 | 15 | 4 | 12 | w. | W. N. Thayer. |
| Elba | Genesee | 500 | 11 | 39.4 | + 7.8 | 77 | 24† | 9 | 15 | 46 | 1.25 | − 0.95 | 0.60 | 4.0 | 4 | 20 | 7 | 4 | sw. | Jos. S. Wilford. |
| Fayetteville | Onondaga | 530 | 9 | 42.7 | | 82 | 28 | 12 | 18 | 42 | 0.60 | − 2.30 | 0.24 | 2.0 | 6 | 14 | 8 | 9 | sw. | Dana H. Wells. |
| Gabriels | Franklin | 1,729 | 8 | 32.1 | | 70 | 24 | −16 | 18 | 48 | 0.75 | | 0.17 | 4.4 | 11 | 17 | 4 | 10 | nw. | Sanatorium. |
| Harkness | Clinton | 622 | 8 | 36.4 | | 72 | 28 | 5 | 18 | 43 | 0.39 | | 0.19 | 0.0 | 4 | 30 | 1 | 0 | w. | J. W. Harkness. |
| Hemlock Lake | Livingston | 900 | 12 | 39.5 | + 7.0 | 75 | 24† | 16 | 14† | 43 | 0.15 | − 1.90 | 0.15 | T. | 1 | 18 | 8 | 5 | s. | D. H. Westbury. |
| Hunt | do | 1,321 | 11 | 44.0 | + 9.8 | 82 | 24 | 18 | 11‡ | 37 | 0.68 | − 2.05 | 0.41 | 1.0 | 3 | 14 | 13 | 4 | sw. | W. S. Barrager. |
| Ithaca | Tompkins | 928 | 32 | 42.0 | + 8.1 | 80 | 29 | 16 | 18 | 37 | 0.30 | − 2.14 | 0.17 | 1.0 | 7 | 14 | 7 | 10 | se. | U. S. Weather Bureau. |
| Keene Valley | Essex | 1,000 | 12 | 35.6 | + 6.2 | 76 | 24† | − 2 | 18 | 50 | 1.25 | − 1.66 | 0.84 | 0.3 | 6 | 20 | 5 | 6 | s. | E. R. Wells. |
| King Ferry | Cayuga | | 10 | | | | | | | | 0.35 | − 2.07 | 0.12 | 1.4 | 4 | 18 | 3 | 10 | nw. | Lucius A. Goodyear. |
| Lake George | Warren | 350 | 13 | 37.2 | + 5.6 | 79 | 29 | 0 | 18 | 40 | 0.53 | − 3.51 | 0.29 | T. | 4 | 13 | 16 | 2 | sw. | Charles Forsell. |
| Lake Placid Club | Essex | 1,864 | 2 | 32.4 | | 65 | 24† | 1 | 10 | 44 | 4.06 | | 2.00 | 6.0 | 8 | 7 | 16 | 8 | w. | Henry van Hoevenberg. |
| Le Roy | Genesee | 920 | 20 | 42.2 | +13.0 | 82 | 29 | 12 | 15 | 45 | 0.77 | − 1.99 | 0.25 | 1.8 | 8 | 18 | 6 | 7 | w. | F. W. Ball. |
| Lockport | Niagara | 650 | 23 | 39.8 | + 6.5 | 75 | 29 | 11 | 15 | 42 | 0.74 | − 1.53 | 0.48 | 0.2 | 3 | 15 | 4 | 12 | sw. | J. E. Wakeman. |
| Lowville | Lewis | 900 | 43 | 37.6* | + 8.5 | 71* | 24† | 4* | 18 | 40* | 1.00 | − 1.50 | 0.75 | | 2 | | | | w. | Charles J. Rice. |
| Lyndonville | Orleans | | 14 | | | | | | | | 1.21 | − 0.49 | 0.90 | | 2 | 25 | 2 | 4 | sw. | Milton St. John. |
| Moira | Franklin | 200 | 10 | 37.0 | + 7.9 | 74 | 24 | 2 | 17 | 44 | 0.97 | − 2.39 | 0.50 | 4.0 | 7 | 8 | 14 | 9 | w. | C. E. McBride. |
| Nehasane | Hamilton | 1,750 | 2 | 31.2 | | 66 | 24† | −17 | 18 | 55 | 2.77 | | 0.89 | 9.5 | 7 | 17 | 6 | 8 | w. | A. C. Heyburn. |
| North Lake | Herkimer | 1,822 | 9 | 32.2 | + 7.1 | 67 | 29 | −10 | 12 | 50 | 2.17 | − 2.52 | 0.60 | | 4 | 15 | 7 | 9 | nw. | H. A. Paull. |
| Ogdensburg | St. Lawrence | 175 | 26 | 36.2 | + 7.1 | 72 | 24 | 4 | 17 | 40 | 1.36 | − 1.19 | 0.68 | 12.0 | 4 | 21 | 8 | 2 | s. | State Hospital. |
| Old Forge | Herkimer | 1,733 | 2 | 32.1 | | 68 | 24† | − 9 | 18 | 44 | 1.00 | | 0.25 | 7.2 | 10 | 14 | 10 | 7 | | Stuart W. Nelson. |
| Oswego | Oswego | 335 | 40 | 38.8 | + 7.4 | 78 | 24 | 14 | 17 | 39 | 0.92 | − 1.92 | 0.35 | 4.3 | 11 | 13 | 9 | 9 | s. | U. S. Weather Bureau. |
| Otto | Cattaraugus | 1,410 | 6 | 42.2 | | 78 | 25† | 11 | 15 | 40 | 0.89 | | 0.66 | | 3 | 21 | 6 | 4 | | William Winke. |
| Palermo | Oswego | 460 | 51 | | | | | | | | 0.79 | − 2.08 | 0.20 | 4.1 | 8 | 18 | 6 | 7 | sw. | E. B. Bartlett. |
| Perry City | Schuyler | 1,038 | 30 | 39.9 | + 9.7 | 80 | 30 | 13 | 10† | 44 | 0.59 | − 2.42 | 0.30 | 2.8 | 5 | 14 | 8 | 9 | nw. | W. H. Jeffers. |
| Philadelphia | Jefferson | 485 | 4 | 37.8 | | 74 | 24 | 7 | 17 | 42 | 1.07 | | 0.48 | 1.5 | 6 | 13 | 14 | 4 | w. | E. D. Babcock. |
| Plattsburg | Clinton | 170 | 60 | 36.3 | + 9.6 | 73 | 29 | 5 | 18 | 31 | 0.34 | − 1.85 | 0.17 | 0.0 | 4 | 15 | 11 | 5 | nw. | T. P. Davison. |
| Potsdam | St. Lawrence | 300 | 34 | 37.2 | + 8.6 | 76 | 30 | 3 | 17 | 45 | 0.82 | − 1.12 | 0.52 | 5.0 | 4 | 17 | 5 | 9 | sw. | Lloyd W. Weed. |
| Raquette Lake | Hamilton | | 2 | 32.7 | | 65 | 30 | −10 | 18 | 47 | 2.43 | | 0.61 | 11.5 | 10 | 17 | 2 | 12 | w. | R. J. Dunning. |
| Rochester | Monroe | 523 | 81 | 41.4 | +10.1 | 81 | 24 | 16 | 14 | 41 | 0.73 | − 2.20 | 0.28 | 3.4 | 7 | 15 | 7 | 9 | w. | U. S. Weather Bureau. |
| Romulus | Seneca | 719 | 18 | 42.6 | + 9.2 | 81 | 29 | 17 | 18 | 43 | 0.33 | − 2.19 | 0.30 | T. | 2 | 20 | 3 | 8 | nw. | John H. Coryell. |
| Shortsville | Ontario | 740 | 11 | 41.4 | + 8.6 | 84 | 29 | 15 | 15 | 46 | 0.06 | − 2.10 | 0.05 | T. | 2 | 22 | 5 | 4 | s. | C. H. Latting. |
| Skaneateles | Onondaga | | 15 | | | | | | | | 0.96 | − 2.66 | 0.35 | | 9 | | | | | Edward Conron. |
| Syracuse | do | 597 | 8 | 41.2 | + 9.8 | 78 | 24 | 15 | 18 | 35 | 0.63 | − 1.75 | 0.26 | 4.8 | 9 | 12 | 8 | 11 | s. | U. S. Weather Bureau. |
| Ticonderoga | Essex | 344 | 12 | 36.3 | + 4.7 | 74 | 29 | 1 | 17 | 40 | 0.61 | − 2.07 | 0.50 | 0.0 | 3 | 18 | 7 | 6 | s. | Eva M. De Lano. |
| Trudeau | do | 1,620 | 17 | 36.2 | + 8.9 | 72 | 24 | − 9 | 18 | 49 | 1.24 | − 1.24 | 0.24 | 2.8 | 10 | 14 | 6 | 11 | w. | Daniel Smith. |
| Tupper Lake | Franklin | 1,552 | 10 | 33.0 | + 6.9 | 69 | 24† | − 9 | 18 | 44 | 0.57 | − 2.13 | 0.20 | 3.5 | 7 | 16 | 5 | 10 | w. | Aaron W. Maddox. |
| Volusia | Chatauqua | 1,167 | 11 | 41.6 | + 9.4 | 80 | 24† | 10 | 15 | 40 | 0.83 | − 1.70 | 0.52 | 2.0 | 5 | 17 | 10 | 4 | s. | Benjamin Breads. |
| Watertown | Jefferson | 737 | 18 | 38.8* | + 8.4 | 73* | 24† | 8* | 17 | 41* | | | | | | | | | | L. L. Allen. |
| Wedgewood | Schuyler | 1,430 | 21 | 41.4 | +10.6 | 80 | 29 | 14 | 15† | 42 | 0.46 | − 2.34 | 0.17 | 2.5 | 6 | 23 | 1 | 7 | sw. | Orlando F. Corwin. |
| Westfield | Chatauqua | 837 | 14 | 43.5[b] | +10.1 | 82[b] | 29 | 11[b] | 15 | 40[b] | 0.72 | − 1.80 | 0.34 | 1.0 | 5 | | | | | John R. Rogers. |
| Youngstown | Niagara | | 8 | | | | | | | | 0.84 | | 0.44 | 2.0 | 5 | 10 | 21 | 0 | s. | B. V. Brookins. |
| *Vermont.* | | | | | | | | | | | | | | | | | | | | |
| Burlington | Chittendon | 404 | 3 | 35.4 | + 8.1 | 68 | 29 | 6 | 17† | 35 | 0.51 | − 1.32 | 0.18 | 0.2 | 7 | 10 | 12 | 9 | s. | U. S. Weather Bureau. |
| Cornwall | Addison | 507 | 17 | 38.0 | + 8.9 | 72 | 29 | 5 | 18 | 36 | 0.53 | − 1.77 | 0.16 | T. | 5 | 14 | 10 | 7 | s. | C. H. Lane. |
| Enosburg Falls | Franklin | 601 | 19 | 35.8 | + 8.4 | 70 | 24 | − 4 | 18 | 42 | 1.56 | − 1.49 | 0.70 | 6.0 | 10 | 12 | 8 | 11 | nw. | L. Howe Pomeroy. |
| Northfield | Washington | 876 | 24 | 33.7 | + 7.5 | 69 | 25 | − 3 | 18 | 39 | 0.60 | − 2.19 | 0.33 | T. | 6 | 10 | 10 | 11 | s. | U. S. Weather Bureau. |
| Rutland | Rutland | | | | | | | | | | | | | | | | | | | H. L. Hindley. |
| Wells | do | 750 | 19 | 35.8 | + 8.3 | 68 | 29 | 3 | 18 | 28 | 1.06 | − 2.02 | 0.61 | ..... | 6 | 11 | 13 | 7 | s. | E. R. Pember. |

*, [b], *, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
‖ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
Estimated by observer.
Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1910. District No. 4, Lake Region.*

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Minnesota.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cloquet | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duluth | do | .04 | | T. | | | T. | T. | | | .11 | .20 | | | | | T. | | | | | T. | | | | | T. | | | .03 | .06 | | 0.44 |
| Floodwood | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mount Iron | do | | | | | | T. | | | | T. | .05 | | | | | | | | | | | | | T. | | | T. | | .05 | .06 | T. | 0.16 |
| Stephens Mine | do | | | | | | T. | | | | T. | .05 | | | | | .03 | | | T. | | | | | .03 | | | | | T. | .13 | T. | 0.24 |
| Two Harbors | do | T. | | | | | | | | | T. | | | | | | | T. | | | | | | | | | | | | | .40 | | 0.40 |
| *Wisconsin.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Appleton | Fox | .03 | | | | | | T. | | | | .20 | | | | | | | | | | | | | | | | | | | .10 | | 0.33 |
| Ashland | Lake | | | | | | | | | | T. | T. | | | | | | T. | | T. | | | | | | | | | T. | T. | | T. |
| Cecil | Fox | .03 | | T. | | | T. | | | | | .08 | | | | | .03 | | | T. | | | | | | | | | | .12 | | 0.26 |
| Chilton | do | .05 | T. | T. | | | | T. | | | | * | .05 | | | | | | | | | | | | | | | | | .04 | | 0.14 |
| Crandon | do | | | .05 | | | | | | | .20 | | | | | | | | | | | | | | | | | | | T. | | 0.25 |
| Florence | Menominee | | | | | | | | | | | .10 | | | | | | T. | | | | | | | | | | T. | | .07 | | 0.17 |
| Fond du Lac | Fox | .10 | | T. | | | | | | | | T. | | | | | | | | | | | | | | | | | | .10 | | 0.20 |
| Grand River Locks | do | .02 | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | 0.02 |
| Green Bay | Lake | .03 | | | | | | | | | | .08 | | | | | .01 | | | | | | | | | | | | | .07 | | 0.19 |
| Herbster | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iron River | do | | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | .10 | .03 | 0.23 |
| Kewaunee | do | .05 | | | | | | | | | | .24 | | | | | | | | | | | | | | | | | | .10 | | 0.39 |
| Manitowoc | do | T. | | | | | | .01 | | | | .05 | | | | | | | | | | | | | | | | T. | | .05 | T. | 0.11 |
| Menasha | Fox | T. | | T. | | | | | | | | .04 | | | | | | | | | | | | | | | | | | .10 | | 0.14 |
| Menominee Falls | Lake | T. | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | .08 | | 0.08 |
| Milwaukee | do | .02 | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | .03 | | 0.05 |
| New London | Fox | T. | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | .12 | | 9.12 |
| Oconto | Lake | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | .06 | | 0.16 |
| Oshkosh | Fox | | | T. | | | | | | | | T. | | | | | | | | | | | | | | | | | | T. | | T. |
| Pine River | do | T. | | T. | | | | T. | | | | T. | | | | | | T. | | | | | | | | | | | | .01 | | 0.01 |
| Plum Island | Lake | .03 | | | | | | | | | | .05 | | | | | | .04 | | .03 | .08 | | | | | | | .02 | | .05 | | 0.30 |
| Port Washington | do | T. | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | .05 | | 0.05 |
| Racine | do | .03 | | | | | | | | | | | | T. | | | | | | | .67 | | | | | | | | | .02 | | 0.72 |
| Sheboygan | do | T. | | | .05 | | | | | | | .05 | | | | | | | | | | | | | | | | | | T. | | 0.10 |
| Sturgeon Bay | do | T. | | T. | | | | | | | | .06 | | .02 | T. | | | | | T. | | | | | | | | | | | .11 | 0.19 |
| Superior‖ | do | | | | | | | | | | | 34 | | | | | | | | | | | | | | | | | | | | 0.34 |
| Waupaca | Fox | | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | .10 | | 0.10 |
| *Illinois.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chicago | Lake Michigan | T. | | | | | | T. | | | | T. | | T. | T. | | | | | .16 | .08 | | | | | | T. | | | .05 | | 0.29 |
| *Indiana.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Auburn‖ | Maumee | .08 | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | .05 | 0.13 |
| Berne | do | | | | | | | | | | | | .02 | | T. | | | | | | | | | | | | | | | | | 0.02 |
| Elkhart‖ | St. Joseph | T. | .11 | | | | | T. | | | | | | | T. | | | | | | .16 | | | | | | | | | T. | .15 | 0.42 |
| Fort Wayne | Maumee | .02 | | | | | | T. | | | | | | | T. | | | | | T. | | | | | | | | | | T. | | 0.02 |
| Hammond | Lake Michigan | .11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.11 |
| Howe‖ | St. Joseph | .53 | | | | | | | | | | | | | | | | | | .20 | | | | | | | | | | | T. | 0.73 |
| South Bend‖ | do | | .26 | | | | | | | | | | | | T. | T. | | | | | .12 | | | | | | | | | | .05 | 0.43 |
| Whiting | Lake Michigan | .04 | | | | | | | | | | | | | T. | | | | | | .12 | | | | | | | | | .06 | | 0.22 |
| *Michigan—Upper Peninsula.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Baraga | Lake | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | | | | 0.15 |
| Bergland | Ontonagon | | | | | | T. | | | | | .07 | | | | | | | | .03 | | | | | | | | | | .09 | | 0.19 |
| Blaney | Manistique | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Calumet | Lake | | | | | | T. | T. | T. | | | .04 | | | | | | T. | | .05 | | T. | | | T. | T. | | .01 | | T. | .02 | .16 | 0.28 |
| Chatham | do | .13 | | | | | .02 | .06 | | | | .18 | | .04 | | | | | .03 | | | | | | | | | | | .03 | .05 | 0.54 |
| Deer Park | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detour | St. Marys | | | | | | | .02 | .20 | | | | | | | | | | | | | | | | | | | | | | | 0.22 |
| Eagle Harbor | Lake | | | | | | | T. | | | | | | | | | | | | .04 | | | | | T. | | | | .03 | T. | | 0.07 |
| Escanaba | do | .02 | | T. | | | T. | T. | | | | .14 | | T. | | | .04 | T. | T. | .05 | | | | | | | .01 | .01 | | T. | T. | T. | 0.27 |
| Ewen | Ontonagon | | | | | | | .10 | | | | | | | | | | | | .12 | | | | | | | | | | | .01 | .01 | 0.24 |
| Grand Marais | Lake | | | | | | | .10 | | | .05 | | | T. | | T. | | | | | .05 | | | | T. | | | | | | T. | | 0.20 |
| Houghton | do | .01 | | | | | T. | T. | | | .04 | .07 | | | T. | T. | | | .01 | .01 | | T. | | | .03 | | | .05 | | | .18 | .09 | 0.49 |
| Humboldt | Escanaba | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iron Mountain | Menominee | T. | | T. | | | | | | | | .03 | | | | | | .05 | | | | | | | | | | | | | .03 | | 0.11 |
| Iron River | do | | | | | | | | | | | .30 | | .20 | | | T. | | | .40 | | | | | | | | | | T. | T. | 0.90 |
| Ironwood | Lake | | T. | | | | | | | T. | T. | | | | | | | T. | | .04 | | | | | | | | | T. | T. | | 0.04 |
| Ishpeming | Escanaba | | | | | | T. | T. | | | | .10 | | | | | | .01 | | .30 | | | | | | T. | | | | .10 | T. | 0.51 |
| Isle Royale | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mackinac Island | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maple Ridge | do | | | | | | | | | | | .20 | | | | | | | | | | | | | | | | | | .10 | | 0.30 |
| Marquette | do | T. | | | | | T. | .01 | | | | .07 | | T. | T. | | .01 | | | .01 | | | | | T. | | | .02 | | .01 | .08 | T. | 0.21 |
| Menominee | Menominee | T. | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | | 0.10 |
| Newberry | Tequamenon | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | | | | | | 0.10 |
| Powers | Lake | | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | T. | | | 0.10 |
| St. Ignace | do | | | | | | | .03 | .10 | | | .01 | | | | | | .02 | | .08 | | .01 | | | | | | T. | .01 | .02 | .15 | 0.38 |
| Sault Saint Marie | St. Marys | .06 | | | | | .01 | .07 | | | | T. | | | | T. | | | | .10 | | T. | | | T. | | | .03 | | T. | .02 | .01 | 0.30 |
| Thomaston | Lake | | | | | | | | | T. | | | | | | | .05 | | | | | | | | | | | | | T. | T. | 0.05 |
| Victoria | Ontonagon | | | | | | | | | | | .07 | | | | | | | | T. | | | | | | | | | | .02 | .02 | 0.11 |
| Watersmeet | do | T. | | | | | T. | | | | | .09 | | | | | | T. | | | | | | | | | | | | .06 | .02 | 0.17 |
| Wetmore | Lake | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | | | | | | 0.30 |
| Whitefish Point | do | | | | | | .22 | .16 | | | | | | | | | | | | | | | | | | | | | T. | T. | .04 | 0.42 |
| *Michigan—Lower Peninsula.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrian | Raisin | | | | | | | | | | | | | | | | | .05 | | | .19 | | | | | | | | | | | | 0.24 |
| Agricultural College | Grand | .10 | | | | | | | | | | T. | | | | | | T. | | | .20 | | | | | | | | | .10 | T. | 0.40 |
| Allegan | Kalamazoo | T. | | | | | | T. | | | | T. | | | | | | | | | .19 | | | | | | | | | T. | T. | 0.19 |
| Alma | Saginaw | T. | | | | | | | | | .05 | | | | | | | | | T. | | | | | | | | | | T. | .08 | 0.13 |
| Alpena | Lake | .02 | | | | | .10 | .01 | | | T. | T. | | .01 | | T. | | | | .26 | | .01 | | | | | T. | .02 | | .01 | | 0.44 |
| Ann Arbor | Huron | .01 | T. | | | | | | | | | T. | T. | | | | | .02 | | | .42 | | | | | | | | T. | .03 | | 0.48 |
| Arbela | Saginaw | | | | | | | T. | | | | T. | | | | | | | | | .41 | | | | | | | | | | | 0.41 |
| Battle Creek | Kalamazoo | .18 | .05 | | | | | T. | | | | T. | | | | | | | | | .21 | | | | | | | | | T. | .07 | 0.51 |
| Bay City | Saginaw | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Benzonia | Betsie | .04 | | | | | | | | | | T. | | T. | | | | | | | | | | | | | | | | .15 | | 0.19 |
| Berlin | Clinton | .02 | .16 | | T. | | | T. | | | | | | | T. | | | T. | | | .34 | | | | | | | | | T. | | 0.52 |
| Big Rapids | Muskegon | .10 | .10 | .10 | | | | T. | | | | | | | | | | | | | | | | | | | | | | | .30 | 0.60 |
| Bloomingdale | Lake | T. | | | | | | T. | | | | T. | | | | | | | | | .30 | | | | | | | | | | T. | 0.30 |
| Cadillac | Manistee | .15 | | | | | | T. | | | | T. | | T. | | | | | | | | | | | | | | | | | T. | 0.15 |
| Cassopolis | St. Joseph | | | | | | | | | | | | | | | | | | | | .10 | | | | | | | | | | .10 | 0.20 |
| Charlevoix | Lake | | | | | | | T. | | | | | | | | | | | | | .02 | | | | | | | | | | | 0.02 |
| Charlotte | Kalamazoo | | | | | | | T. | | | | | T. | | | | | | | | | | | | | | | | | T. | .06 | 0.06 |
| Cheboygan | Cheboygan | | | | | | T. | T. | | | T. | | | | | | | | .55 | T. | | | | | | | | | | | T. | 0.55 |
| Clinton | Raisin | .23 | | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | | 0.38 |
| Coldwater | St. Joseph | .12 | | | | | | | | | | | | | | | | | | | .10 | | | | | | | | | | T. | 0.22 |
| Concord | Kalamazoo | T. | | | | | | | | | | T. | | | | | | | | | .15 | | | | | | | | | | T. | 0.15 |
| Croton | Muskegon | T. | T. | | | | | T. | | | | T. | | | | | | | | | | T. | | | | | | | | T. | .25 | 0.25 |
| Detroit | Detroit | T. | | | | T. | | .01 | | | | T. | | T. | .02 | | | .01 | | | .34 | T. | | | | | | | | T. | | 0.38 |
| Durand | Saginaw | | T. | .17 | | | | T. | | | | T. | T. | | | | | T. | | | .31 | | | | | | | | | T. | T. | 0.48 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 4*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Michigan—Lower Peninsula*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| East Tawas | Lake | .08 | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | | .10 | | 0.33 |
| Eloise | Rouge | | .02 | | | | | T. | | | | | T. | T. | T. | | | T. | | | .32 | | | | | | | | | | | 0.34 |
| Flint | Saginaw | .05 | .15 | | | | | | | | | | | | | | | | | | .30 | | | | | | | | | | .12 | 0.62 |
| Frankfort | Betsie | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.30 |
| Ganges | Lake | | | | | | | | | | | T. | | | | | | | | | .16 | | | | | | | | | | .26 | 0.42 |
| Gaylord | Cheboygan | | | | | | | T. | | | | T. | | | | | | | | .10 | | | | | | | | | | | | 0.10 |
| Gladwin | Saginaw | T. | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | T. |
| Grand Haven | Grand | .02 | | | | | T. | .02 | | | | .04 | | T. | T. | | | | T. | | .02 | | | | | | | | | .11 | | 0.21 |
| Grand Rapids | do | .01 | | T. | | | T. | T. | | | | T. | | T. | | | | | | | .04 | T. | | | | | | | | .03 | | 0.08 |
| Grape | Raisin | .15 | | | | | | T. | | | | | | T. | T. | | | T. | | | .07 | | | | | | | | | | | 0.22 |
| Grass Lake | Grand | | .06 | | | | | T. | | | | T. | | | | | | T. | | | .05 | | | | | | | | | | | 0.11 |
| Grayling | Au Sable | | | | | | .10 | .30 | | | | | T. | T. | | | | | T. | | T. | | | | | T. | | | | | | | 0.40 |
| Harbor Beach | Lake | | | | | | | | | | | | | | | | | | | | .20 | | | | | | | | | | | | 0.20 |
| Harrison | Saginaw | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .46 | 0.46 |
| Harrisville | Lake | .06 | | | | | | .15 | | | | | | | | | | | | .20 | .10 | | | | | | | | | | .15 | 0.66 |
| Hart | Pentwater | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. |
| Hayes | Pigeon | | | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | | 0.15 |
| Highland | Huron | | .24 | | | | | | | | | | .18 | | .10 | | | | | | .22 | | | | | | | | | T. | | 0.74 |
| Hilledale | Saint Joseph | T. | T. | | | | | T. | | | | T. | | T. | T. | | | | | | T. | | | | | | | | | T. | .07 | 0.07 |
| Holland | Lake | | | | | | | T. | | | | T. | | | T. | | | | | | .05 | | | | | | | | | .07 | .02 | 0.14 |
| Howell | Saginaw | .25 | .35 | | | | | | | | | | T. | | | | | | | | .05 | | | | | | | | | T. | T. | 0.65 |
| Ivan | Manistee | T. | | | | | | .10 | | | T. | T. | | | | | | | | .01 | | | | | | | | | | T. | .01 | 0.12 |
| Jackson | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jeddo | St. Clair | .05 | .22 | | | | | .02 | .02 | .02 | | | | T. | T. | | | | | | .41 | | | | | | | | | | | 0.74 |
| Kalamazoo | Kalamazoo | .15 | | | | | | .05 | | | | T. | | | | | | | | | .10 | | | | | | | | | | .05 | 0.35 |
| Lansing | Grand | .15 | | | | | | T. | | | | .06 | | T. | | | | T. | | | .21 | | | | | | | | | T. | .13 | 0.55 |
| Lapeer | Saginaw | | | | | | T. | T. | | | | | | | | | | | | | .31 | | | | | | | | | | | 0.31 |
| Ludington | Pere Marquette | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Luther | Manistee | .06 | | | | | | T. | | | | T. | | T. | | | | | | T. | | | | | | | | | | T. | | 0.06 |
| Mackinaw | Lake | | | | | | .02 | .20 | | | | | | | | | | | | | | | | | | | | | | | | 0.22 |
| Mancelona | do | T. | | | | | T. | T. | | | | T. | | | | | | | T. | | | | | | | | | | | | T. | T. |
| Manistee | Manistee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. |
| Midland | Saginaw | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .61 | 0.01 |
| Montague | White | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Morenci | Maumee | | | | | | | | | | | | | | | | | | | | .06 | | | | | | | | | | .02 | 0.08 |
| Mount Clemens | Clinton | | T. | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | | 0.15 |
| Mount Pleasant | Saginaw | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Muskegon | Muskegon | T. | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | T. | T. | T. |
| Old Mission | Lake | | | | | | | | | | | | | | | | | | | | .16 | | | | | | | | | | | 0.16 |
| Olivet | Kalamazoo | .22 | | | | | | T. | | | | .03 | | T. | | | | | | | .46 | | | | | | | | | | .05 | 0.76 |
| Omer | Lake | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Onaway | Cheboygan | | | | | | .10 | .05 | | | | | | | | | | | | | | | | | | | | | | | | 0.15 |
| Ovid | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Owosso | Saginaw | | | | | | | | | | | | | | | | | | | | .50 | | | | | | | | | | .50 | 1.00 |
| Petoskey | Lake | | | | | | .10 | | | | | .02 | | | | | | | | .15 | T. | | | | | | | | | .02 | .10 | 0.39 |
| Plymouth | Rouge | | | | | | | | | | | T. | | | | | | T. | | | | | | | | | | | | | | T. |
| Pontiac | Clinton | T. | .05 | | | | | T. | | | | T. | | | .01 | | | T. | | | .32 | | | | | | | | | T. | | 0.38 |
| Port Austin | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Port Huron | St. Clair | .12 | | | | | | .01 | | | | | | T. | .01 | T. | | T. | | | .27 | | T. | | | | | | | T. | | 0.41 |
| Reed City | Muskegon | .05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.05 |
| Roscommon | Au Sable | | | | | | | T. | | T. | | T. | T. | | | | | | T. | T. | | | | | | | | | | | T. | T. |
| Saginaw | Saginaw | .10 | .07 | | | | T. | T. | | | | T. | T. | | T. | | | | | | T. | | T. | | | | | | | T. | T. | 0.17 |
| Saginaw, W. S. | do | .10 | .02 | | | | | .02 | T. | | | T. | T. | | T. | | | T. | | | T. | | | | | | | | | T. | .08 | 0.22 |
| St. James | Lake | | | | | | | .05 | | | | | | | | | | | | | | | | | | | | | | | | 0.05 |
| St. Johns | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| St. Joseph | St. Joseph | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Sandusky | Lake | | .14 | | | | | | | | | | | | | | | | | | .22 | | | | | | | | | .02 | | 0.38 |
| Saranac | Grand | T. | .04 | | | | | T. | | | | T. | | | | | | | | | .12 | | | | | | | | | T. | .16 | 0.32 |
| South Haven | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | |
| Stanton | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thornville | Saginaw | | .24 | | | | | | | | | | | | .10 | | | | | | .65 | | | | | | | | | | | 0.99 |
| Traverse City | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vassar | Saginaw | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Wasepi | St. Joseph | .45 | | | | | | | | | | | | | | | | | | | .28 | | | | | | | | | .03 | .12 | 0.88 |
| Webberville | Grand | .14 | .06 | | | | | T. | | | | T. | | | | | | T. | | | .26 | | | | | | | | | | .05 | 0.51 |
| West Branch | Lake | T. | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Woodlawn | Au Sable | | | | | | | .20 | | | .10 | | | | | | | | | | .31 | | | | | | | | | .04 | | 0.65 |
| Ypsilanti | Lake | | | | | | | | | | | | | | | | | | | | .30 | | | | | | | | | T. | T. | 0.30 |
| *Ohio.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Akron‖ | Lake | .05 | | | | | | .03 | .02 | | | | | .01 | T. | | | .04 | | | .30 | T. | .03 | | | | | | | .01 | | 0.49 |
| Benton Ridge | Maumee | | | | | | | T. | | | | | T. | | | | | | | .42 | | | | | | | | | .02 | | | 0.44 |
| Bowling Green | Lake | | | | | | | | | | | | | | | | | | | | .25 | | | | | | | | | | | 0.25 |
| Bucyrus | Sandusky | | | | | | | | | | | | T. | T. | | | | | | T. | .60 | | | | | | | | | | | 0.60 |
| Cleveland (1) | Lake | T. | T. | T. | | | .01 | .07 | | | | | T. | .13 | | .07 | T. | | | | .12 | | .01 | | | | | | T. | T. | T. | 0.41 |
| Cleveland (2) | do | | | | | | .02 | T. | | | | | | .09 | | .08 | | | | | .06 | | T. | | | | | | T. | | | 0.25 |
| Defiance | Maumee | | | | | | | T. | | | | | | | | | | | | | .09 | | | | | | | | | | | 0.09 |
| Findlay‖ | do | | | | | | T. | | | | | | | | | | | | | | .22 | .05 | | | | | | | | | | 0.27 |
| Fremont | Sandusky | | | | | T. | | T. | | | | | T. | T. | | | | T. | | | .20 | | | | | | | | | | | 0.20 |
| Hedges | Maumee | | | | | | | | | | | | | | | | | | | | .04 | | | | | | | | | | | 0.29 |
| Hillhouse | Lake | | | | | | | T. | | | | | | | | | | | | .25 | .04 | | | | | | | | | | | 0.31 |
| Hiram | do | | | | | | | .05 | | | | | T. | .01 | | | | .09 | | | .24 | | T. | | | | | | T. | T. | | 0.23 |
| Hudson | do | | | | | | | | | | | | | .10 | | | | .20 | | | .37 | | .02 | | | | | | | | | 0.69 |
| Lima | Maumee | | | | | | | | | | | | | | | | | | | | .13 | | | | | | | | | | | 0.13 |
| Medina | Lake | | | | | | T. | T. | | | | | T. | .12 | | | | T. | | | .36 | | | | | | | | | | | 0.48 |
| Montpelier | Maumee | | | | | | | | | | T. | | | T. | | | | T. | | | .18 | | | | | | | | | T. | T. | 0.18 |
| Napoleon | do | | | | | | | T. | | | | | | | | | | | | T. | .20 | | | | | | | | | | | 0.20 |
| New Bremen | do | | | | | | T. | | | | T. | | | | | | | | | .02 | T. | | | | | | | | | | | 0.02 |
| North Royalton | Lake | | | | | | | .10 | | | | | | .05 | | | | .10 | | | .25 | | | | | | | | | T. | | | 0.50 |
| Norwalk | do | | | | | | | T. | | | | | | | | | | | | | .29 | | | | | | | | | | | 0.29 |
| Oberlin | do | | | | | | T. | T. | | | | | | .05 | | | | T. | | | .22 | | | | | | | | | T. | | | 0.27 |
| Ottawa | Maumee | | | | | | | | | | | | | | | | | | | .25 | T. | | | | | | | | | | | 0.25 |
| Rome | Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sandusky | do | | | | | | T. | T. | | | | | T. | T. | | T. | | .01 | | | .27 | | T. | | | | | | | T. | | | 0.28 |
| Tiffin | Sandusky | | | | | | T. | T. | | | | | .01 | T. | | | | T. | | .15 | .21 | | T. | | | | | | | T. | | | 0.37 |
| Toledo (1) | Maumee | | | T. | | T. | | .01 | | | | | T. | T. | | | | T. | | | .04 | | T. | | | | | | | | | | 0.05 |
| Toledo (2) | do | | | | | T. | T. | T. | | | | | T. | .01 | | | | | | | .03 | | T. | | | | | | | | | | 0.04 |
| Upper Sandusky | Sandusky | | | | | | .05 | | | | | | T. | T. | | | | | T. | | .40 | | | | | | | | | | | | 0.45 |
| Vickery | Lake | | | | | | .03 | | | | | | .05 | .05 | | | | | | | .19 | | | | | | | | | | | | 0.32 |
| Wauseon | Maumee | T. | .02 | | | | | T. | | | T. | | T. | T. | | | | .01 | | | .09 | | | | | | | T. | | | | | 0.12 |
| Wellington | Lake | | | | | | | T. | | | | | T. | .05 | | | | T. | | | .18 | | .03 | | | | | | | .03 | | | 0.29 |
| Willoughby‖ | do | | | | | | | | | | | | | .20 | | | | | | | .11 | | | | | | | | | | | | 0.31 |
| *Pennsylvania.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erie | Lake | | | .02 | | | .04 | .02 | | | | | .03 | .07 | | | | | T. | | .34 | | .01 | | | | | | | T. | T. | T. | 0.53 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 4*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *New York.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adams Center | Lake | .12 | T. | | .04 | | | .46 | .40 | .10 | | | | .27 | .50 | .20 | .10 | | | | .34 | | | | | | T. | | | | | T. | 2.53 |
| Angelica | Genesee | T. | | | | | | .25 | .03 | | | | | T. | T. | .12 | | | | | .14 | | | | | | | | | | | | 0.54 |
| Appleton | Lake | T. | | | | | .15 | T. | T. | | | | | .05 | .05 | | | | | | .70 | | .02 | | | | | | | | | | 0.97 |
| Auburn | Oswego | | | | | | .18 | .02 | | | | | | T. | .06 | T. | | | | | .04 | | | | | | | | | | T. | | 0.30 |
| Avon | Genesee | T. | | | | | | | .02 | | | | | T. | T. | T. | | | | | .02 | | | | | | | | | | | | 0.04 |
| Benson Mines | St. Lawrence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue Mountain Lake | Raquette | | | | | | .57 | .15 | .35 | .15 | | | | .10 | .10 | | | | | | .24 | | .04 | | | .27 | | | | | | | 1.69 |
| Brockport | Lake | | | | | | | .34 | .03 | | | | | .09 | .05 | .04 | | | | | .24 | | .04 | | | | | | | | | | 0.83 |
| Buffalo | Lake | T. | | | | | .15 | .02 | T. | | | | | .13 | .23 | T. | T. | T. | | | .14 | | .01 | | | | | | | | T. | | 0.68 |
| Canton | St. Lawrence | .01 | .07 | | | | .29 | .17 | .13 | T. | | | | .26 | .27 | .04 | T. | | T. | | .13 | | T. | | | | | | | | T. | .03 | 1.40 |
| Cape Vincent | do | | T. | | | | | .22 | | | | | | .95 | | | T. | | | | .06 | | | | | | | | | | | .03 | 1.26 |
| Carvers Falls | Lake | .28 | .13 | | | | | | | | | | | .10 | | | | | | | | | 14 | | | | | | | | | | 0.65 |
| Chazy | do | | | | | | | | | | | | | | .10 | | | | | | | .05 | | | | | | | | | | | 0.15 |
| Dannemora | do | .10 | T. | | | * | | .40 | T. | .10 | | | | T. | .12 | .05 | T. | .05 | | T. | .13 | T. | T. | | | T. | T. | | | | T. | T. | 0.95 |
| Elba | Lake | | | | | | | .25 | T. | | | | | T. | .20 | .20 | | | | | .60 | | | | | | | | | | | | 1.25 |
| Fayetteville | Oswego | T. | T. | | | | | .24 | .04 | T. | | | | .08 | .04 | .06 | T. | | | | .14 | | T. | | | | | | | | | T. | 0.60 |
| Gabriels | Lake | .02 | .02 | T. | | | | .16 | .07 | .05 | | | | .08 | .17 | .02 | .10 | | | | .02 | | | | | | | | | | * | .04 | 0.75 |
| Harkness | do | .08 | | | | | | .19 | | | | | | | | | | | | | .03 | | | | | | | | | | | .09 | 0.39 |
| Hemlock Lake | Genesee | | | | | | .15 | T. | | | | | | | | | | | | | | | T. | | | | | | | | | | 0.15 |
| Hunt | do | | | | | | .18 | | | | | | | | .09 | | | | | | .41 | | | | | | | | | | | | 0.68 |
| Ithaca | Oswego | .05 | T. | .02 | | | .10 | .07 | T. | T. | | | | T. | .03 | .01 | T. | | | | .02 | | T. | | | | | | | | T. | T. | 0.30 |
| Keene Valley | Au Sable | .08 | | T. | | | | .84 | .03 | T. | | | | .05 | T. | | | | | | .16 | | | | | | | | | | | .09 | 1.25 |
| King Ferry | Oswego | .04 | | | | | .12 | | | | | | | | T. | .11 | | | | | .08 | | | | | | | | | | | | 0.35 |
| Lake George | Lake | .16 | | | | | | .29 | | | | | T. | T. | | T. | | | | | .04 | | | | | | | | | | | .04 | 0.53 |
| Lake Placid Club | Au Sable, W. Br | .41 | .05 | T. | | T. | .50 | | .30 | T. | | | | .10 | .20 | | T. | | | | 2.00 | | | | | | | | | | * | .50 | 4.06 |
| Le Roy | Genesee | | | | | | .09 | .25 | .03 | | | | | .07 | .06 | .02 | T. | T. | | | .24 | | .01 | | | | | | | | T. | | 0.77 |
| Lockport | Lake | | | | | | | * | .20 | | | | | .06 | | | T. | | | | .48 | | T. | | | | | | | | | | 0.74 |
| Lowville | do | | | | | | | .75 | | | | | | | | | | | | | .25 | | | | | | | | | | | | 1.00 |
| Lyndonville | do | | | | | | | .31 | | | | | | | | | | | | | .90 | | | | | | | | | | | | 1.21 |
| Moira | St. Lawrence | T. | .01 | T. | | | | .33 | T. | T. | | | | .03 | .50 | .02 | .01 | | | T. | .07 | | | | | | | | | | T. | | 0.97 |
| Nehasane | Lake | .10 | | | | | | | | .54 | | | | .13 | .29 | | .11 | | | | .89 | | | | | | | | | | * | .11 | 2.17 |
| North Lake | do | .85 | | | | | | .60 | | | | | | | | | | | | | .32 | | | | | .40 | | | | | | | 2.17 |
| Ogdensburg | St. Lawrence | T. | .08 | | | | | .55 | | | | | | .05 | .68 | | T. | | | | T. | | T. | | | | | | | | | T. | 1.36 |
| Old Forge | Lake | | .03 | | | T. | * | .24 | .25 | .10 | | | | .16 | .10 | .05 | .02 | | | | .03 | | | | | | | | | | | .02 | 1.00 |
| Oswego | do | .02 | .01 | | | | .20 | .13 | .02 | .01 | | | | .07 | .35 | .03 | T. | | | | .07 | | T. | | | | | | | | T. | .01 | 0.92 |
| Otto | do | | | | | | .20 | T. | | | | | | | | | .03 | | | | .66 | | | | | | | | | | | | 0.89 |
| Palermo | Lake | | | | | | .06 | .11 | .10 | | | | | .01 | .20 | T. | T. | | | .01 | .10 | | T. | | | | | | | | .20 | | 0.79 |
| Perry City | do | | | .08 | | | | .30 | | | | | | T. | .10 | | | | | | .09 | | .02 | | | | | | | | T. | | 0.59 |
| Philadelphia | St. Lawrence | | .08 | | | | | .48 | T. | | | | | .11 | .17 | | T. | | | T. | .21 | | T. | | | | | | | | | .02 | 1.07 |
| Plattsburg | Lake | .08 | | | | | | .17 | | | | | | | | | | | | | .04 | | | | | | | | | | | .05 | 0.34 |
| Potsdam | St. Lawrence | T. | | | | | | .05 | T. | | | | | .10 | .52 | | T. | | | | .15 | | | | | | | | | | | T. | 0.82 |
| Raquette Lake | Raquette | .28 | .09 | T. | | | * | .56 | .43 | .17 | | | | T. | .11 | .08 | .02 | | | T. | .08 | | | | | | | | | | * | .61 | 2.43 |
| Rochester | Genesee | | T. | T. | | | .26 | .02 | .01 | | T. | | | .09 | .15 | T. | T. | T. | | | .17 | | .03 | | | | | | | | T. | | 0.73 |
| Romulus | Oswego | | | | | | .30 | | | | | | | .03 | | | | | | | | | | | | | | | | | | T. | 0.33 |
| Shortsville | do | | | | | | | T. | | | | | | .01 | T. | | | | | | .05 | | | | | | | | | | | | 0.06 |
| Skaneateles | do | .05 | | | | | .05 | .35 | .13 | | | .03 | .12 | .06 | .02 | | T. | | | | .15 | T. | | | | | | | | | | | 0.96 |
| Syracuse | do | .09 | T. | | | | .18 | .08 | .03 | T. | | | | .05 | .07 | .02 | T. | | | | .10 | | .01 | | | | | | | | T. | T. | 0.63 |
| Ticonderoga | Lake | | | | | | | .50 | | | | | | | T. | T. | | | | | .01 | | | | | | | | | | | .10 | 0.61 |
| Trudeau | do | | | .07 | | | | .16 | | .24 | .14 | T. | .02 | .09 | .10 | .03 | | | | | | T. | .19 | | | | | | | | | .20 | 1.24 |
| Tupper Lake | St. Lawrence | T. | .02 | | | | | .20 | T. | | | | | .05 | .09 | | .10 | | | | .10 | | | | | | | | | | | .01 | 0.57 |
| Volusia | Lake | .03 | | | | | T. | .09 | | | | | | .10 | .09 | | | | | | .52 | | T. | | | | | | | | | | 0.83 |
| Watertown | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wedgewood | Oswego | .10 | | | | | | .17 | .04 | | | | | T. | .07 | .03 | | | | | .05 | | T. | | | | | | | | | | 0.46 |
| Westfield | Lake | | | | | | .02 | .09 | | | | | | .06 | .21 | | | | | | .34 | | T. | | | | | | | | | | 0.72 |
| Youngstown | do | | | | | | .11 | .18 | | | | | | .02 | .09 | | | | | | .44 | | | | | | | | | | | | 0.84 |
| *Vermont.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Burlington | Lake | .01 | T. | | | T. | | .08 | T. | T. | | | | .13 | .02 | T. | T. | | | | .18 | | | | | | T. | | | | .05 | .04 | 0.51 |
| Cornwall | do | .10 | | | | | | .10 | | | | | | .16 | | | | | | | .15 | | | | | | | | | | | .02 | 0.53 |
| Enosburg Falls | do | .11 | .02 | | | | .70 | .05 | | | | | | | .32 | .04 | .05 | | | T. | .17 | | T. | | | | .08 | | | | | .02 | 1.56 |
| Northfield | do | .16 | .02 | | | T. | | .33 | T. | T. | | | | | T. | | T. | | | | .05 | | | | | | T. | | | | .02 | .02 | 0.60 |
| Rutland | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wells | do | .18 | .08 | | | | | .61 | | | | | | | .05 | | | | | | .07 | | T. | | | | | | | | | .07 | 1.06 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 4, Lake Region.*

| Date. | Duluth, Minn. | | Wisconsin. | | | | | | Chicago, Ill. | | Fort Wayne, Ind. | | Michigan, Upper Peninsula. | | | | | | | | Michigan, Lower Peninsula. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Florence. | | Green Bay. | | Milwaukee. | | | | | | Escanaba. | | Ewen. | | Houghton. | | Marquette. | | Sault Ste. Marie | | Alpena. | | Battle Creek. | | Cadillac. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 34 | 21 | 39 | 18 | 37 | 23 | 36 | 32 | 40 | 34 | 50 | 32 | 34 | 22 | 37 | 27 | 37 | 27 | 42 | 18 | 34 | 13 | 37 | 27 | 40 | 31 | 34 | 22 |
| 2... | 40 | 19 | 40 | 14 | 40 | 22 | 40 | 32 | 47 | 34 | 49 | 31 | 39 | 19 | 40 | 5 | 37 | 25 | 41 | 21 | 35 | − 1 | 43 | 24 | 41 | 29 | 36 | 20 |
| 3... | 34 | 24 | 39 | 11 | 44 | 20 | 43 | 32 | 47 | 33 | 52 | 37 | 36 | 16 | 41 | − 4 | 39 | 13 | 40 | 22 | 34 | 5 | 42 | 22 | 48 | 27 | 42 | 20 |
| 4... | 51 | 26 | 54 | 12 | 46 | 27 | 57 | 37 | 55 | 40 | 63 | 29 | 41 | 19 | 53 | 10 | 46 | 18 | 54 | 30 | 45 | 26 | 43 | 33 | 48 | 29 | 50 | 31 |
| 5... | 36 | 29 | 49 | 24 | 50 | 32 | 46 | 38 | 63 | 46 | 69 | 32 | 47 | 26 | 60 | 23 | 40 | 31 | 45 | 34 | 49 | 24 | 47 | 28 | 64 | 31 | 58 | 26 |
| 6... | 41 | 14 | 46 | 27 | 45 | 30 | 49 | 34 | 58 | 38 | 69 | 44 | 51 | 26 | 42 | 4 | 45 | 19 | 49 | 22 | 39 | 26 | 51 | 30 | 61 | 37 | 45 | 37 |
| 7... | 30 | 14 | 31 | 15 | 33 | 19 | 34 | 20 | 38 | 30 | 49 | 31 | 29 | 19 | 20 | 6 | 28 | 17 | 28 | 18 | 26 | 17 | 30 | 22 | 38 | 23 | 37 | 17 |
| 8... | 34 | 14 | 32 | 10 | 37 | 16 | 35 | 22 | 41 | 26 | 45 | 28 | 36 | 16 | 29 | 10 | 24 | 15 | 29 | 17 | 27 | 17 | 32 | 20 | 37 | 25 | 31 | 16 |
| 9... | 34 | 11 | 30 | 6 | 34 | 18 | 34 | 24 | 36 | 31 | 44 | 22 | 31 | 13 | 27 | − 5 | 24 | 10 | 26 | 16 | 24 | 10 | 34 | 15 | 41 | 22 | 32 | 12 |
| 10... | 33 | 18 | 38 | 6 | 38 | 17 | 39 | 25 | 36 | 31 | 47 | 25 | 34 | 13 | 35 | 15 | 39 | 7 | 40 | 16 | 34 | 1 | 36 | 12 | 42 | 20 | 35 | 11 |
| 11... | 40 | 29 | 35 | 26 | 38 | 31 | 42 | 31 | 50 | 32 | 50 | 22 | 34 | 29 | 30 | 5 | 37 | 28 | 35 | 29 | 34 | 17 | 38 | 21 | 42 | 21 | 35 | 22 |
| 12... | 51 | 27 | 48 | 23 | 41 | 36 | 47 | 32 | 52 | 36 | 55 | 26 | 37 | 30 | 32 | 10 | 51 | 26 | 48 | 30 | 37 | 23 | 42 | 30 | 48 | 28 | 39 | 20 |
| 13... | 42 | 27 | 42 | 22 | 43 | 26 | 46 | 28 | 51 | 34 | 57 | 37 | 42 | 23 | 39 | 8 | 42 | 19 | 48 | 21 | 36 | 16 | 41 | 20 | 47 | 33 | 37 | 24 |
| 14... | 28 | 19 | 24 | 10 | 31 | 19 | 29 | 22 | 34 | 28 | 41 | 25 | 26 | 12 | 37 | 4 | 23 | 15 | 22 | 15 | 21 | 4 | 24 | 13 | 34 | 22 | 24 | 12 |
| 15... | 54 | 26 | 47 | 11 | 47 | 19 | 45 | 24 | 46 | 26 | 44 | 16 | 48 | 12 | 45 | 12 | 44 | 15 | 49 | 17 | 35 | 4 | 36 | 9 | 40 | 15 | 34 | 10 |
| 16... | 40 | 26 | 43 | 21 | 40 | 30 | 41 | 33 | 45 | 36 | 57 | 30 | 35 | 22 | 38 | 18 | 30 | 21 | 32 | 21 | 28 | 12 | 34 | 21 | 51 | 32 | 32 | 15 |
| 17... | 31 | 25 | 32 | 18 | 34 | 27 | 37 | 32 | 42 | 35 | 52 | 26 | 28 | 20 | 45 | 12 | 33 | 17 | 29 | 20 | 27 | 2 | 26 | 16 | 43 | 27 | 34 | 15 |
| 18... | 52 | 25 | 49 | 15 | 55 | 28 | 62 | 32 | 69 | 37 | 69 | 25 | 39 | 19 | 56 | 25 | 52 | 21 | 54 | 24 | 40 | 12 | 39 | 17 | 65 | 25 | 52 | 18 |
| 19... | 66 | 34 | 65 | 36 | 66 | 42 | 69 | 49 | 69 | 51 | 66 | 32 | 56 | 35 | 61 | 48 | 58 | 41 | 65 | 45 | 57 | 32 | 66 | 39 | 69 | 42 | 61 | 41 |
| 20... | 56 | 31 | 53 | 32 | 53 | 36 | 57 | 36 | 59 | 40 | 67 | 49 | 48 | 30 | 60 | 40 | 46 | 29 | 49 | 31 | 27 | 23 | 49 | 27 | 60 | 48 | 54 | 33 |
| 21... | 68 | 39 | 65 | 22 | 60 | 33 | 62 | 35 | 65 | 38 | 64 | 25 | 46 | 28 | 67 | 48 | 65 | 27 | 67 | 30 | 47 | 19 | 55 | 24 | 58 | 25 | 53 | 25 |
| 22... | 49 | 33 | 59 | 36 | 56 | 34 | 57 | 40 | 60 | 44 | 74 | 47 | 50 | 38 | 66 | 40 | 49 | 32 | 54 | 29 | 48 | 29 | 55 | 35 | 73 | 48 | 58 | 41 |
| 23... | 66 | 33 | 59 | 35 | 65 | 29 | 65 | 37 | 76 | 40 | 76 | 38 | 43 | 26 | 58 | 23 | 70 | 30 | 57 | 30 | 43 | 28 | 47 | 33 | 69 | 35 | 65 | 31 |
| 24... | 64 | 36 | 60 | 47 | 73 | 55 | 76 | 60 | 79 | 61 | 86 | 41 | 75 | 39 | 55 | 32 | 72 | 34 | 72 | 42 | 64 | 36 | 80 | 46 | 82 | 45 | 69 | 52 |
| 25... | 60 | 26 | 61 | 31 | 66 | 39 | 72 | 53 | 66 | 55 | 76 | 39 | 55 | 35 | 57 | 25 | 45 | 32 | 47 | 32 | 37 | 31 | 50 | 38 | 69 | 48 | 57 | 41 |
| 26... | 48 | 32 | 61 | 30 | 61 | 37 | 54 | 42 | 70 | 52 | 75 | 35 | 53 | 34 | 62 | 42 | 44 | 30 | 46 | 33 | 48 | 26 | 52 | 33 | 73 | 40 | 68 | 40 |
| 27... | 61 | 33 | 74 | 34 | 77 | 41 | 79 | 41 | 81 | 56 | 84 | 41 | 64 | 37 | 73 | 50 | 78 | 35 | 68 | 34 | 46 | 31 | 47 | 36 | 77 | 41 | 74 | 41 |
| 28... | 70 | 38 | 70 | 44 | 74 | 48 | 67 | 49 | 60 | 57 | 84 | 55 | 73 | 40 | 75 | 58 | 64 | 42 | 72 | 45 | 60 | 31 | 72 | 45 | 78 | 49 | 71 | 50 |
| 29... | 60 | 37 | 79 | 41 | 82 | 56 | 81 | 48 | 76 | 63 | 80 | 42 | 55 | 40 | 79 | 24 | 73 | 42 | 81 | 44 | 60 | 34 | 81 | 42 | 77 | 55 | 80 | 52 |
| 30... | 57 | 33 | 71 | 54 | 73 | 44 | 73 | 44 | 76 | 47 | 74 | 58 | 56 | 40 | 72 | 49 | 76 | 43 | 72 | 46 | 63 | 40 | 74 | 51 | 73 | 58 | 75 | 66 |
| 31... | 58 | 36 | 56 | 32 | 58 | 41 | 60 | 41 | 58 | 45 | 70 | 42 | 52 | 35 | 57 | 32 | 50 | 34 | 46 | 34 | 49 | 28 | 55 | 34 | 67 | 41 | 66 | 36 |
| Mns | 48.0 | 26.8 | 30.3 | 24.3 | 51.5 | 31.3 | 52.7 | 35.6 | 56.6 | 40.5 | 62.5 | 34.3 | 44.9 | 26.2 | 49.9 | 22.5 | 47.1 | 25.6 | 48.6 | 27.9 | 40.8 | 19.9 | 47.1 | 27.8 | 56.6 | 33.9 | 49.6 | 29.3 |

| Date. | Michigan, Lower Peninsula. | | | | | | Ohio. | | | | | | | | Erie, Pa. | | New York. | | | | | | | | Vermont. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Detroit. | | Muskegon. | | Saginaw, W.S. | | Cleveland. | | Lima. | | Sandusky. | | Toledo. | | | | Buffalo. | | Canton. | | Rochester. | | Syracuse. | | Burlington. | | Northfield. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 44 | 31 | 36 | 30 | 39 | 27 | 50 | 34 | 52 | 33 | 50 | 33 | 50 | 31 | 48 | 32 | 42 | 34 | 40 | 31 | 48 | 36 | 47 | 34 | 39 | 31 | 39 | 33 |
| 2... | 43 | 32 | 37 | 24 | 40 | 29 | 43 | 31 | 47 | 32 | 49 | 32 | 44 | 33 | 44 | 32 | 41 | 33 | 42 | 33 | 43 | 34 | 44 | 35 | 42 | 34 | 40 | 32 |
| 3... | 48 | 35 | 42 | 26 | 45 | 37 | 42 | 33 | 45 | 37 | 44 | 35 | 48 | 37 | 39 | 32 | 40 | 28 | 39 | 27 | 44 | 31 | 43 | 31 | 41 | 28 | 41 | 22 |
| 4... | 54 | 34 | 51 | 33 | 56 | 33 | 56 | 32 | 60 | 30 | 59 | 32 | 57 | 33 | 53 | 31 | 50 | 29 | 41 | 25 | 49 | 28 | 46 | 28 | 42 | 26 | 40 | 21 |
| 5... | 62 | 38 | 57 | 30 | 65 | 32 | 59 | 42 | 66 | 36 | 56 | 38 | 61 | 38 | 56 | 39 | 58 | 44 | 51 | 31 | 59 | 39 | 57 | 39 | 43 | 28 | 45 | 17 |
| 6... | 64 | 35 | 50 | 32 | 61 | 37 | 67 | 36 | 60 | 39 | 69 | 36 | 68 | 38 | 67 | 35 | 66 | 36 | 55 | 28 | 67 | 37 | 61 | 35 | 51 | 26 | 48 | 19 |
| 7... | 36 | 25 | 32 | 21 | 39 | 22 | 36 | 26 | 40 | 31 | 37 | 28 | 39 | 28 | 36 | 24 | 36 | 24 | 50 | 25 | 40 | 26 | 40 | 26 | 43 | 29 | 38 | 28 |
| 8... | 38 | 27 | 35 | 23 | 39 | 23 | 36 | 26 | 43 | 28 | 40 | 27 | 44 | 28 | 34 | 24 | 32 | 24 | 28 | 20 | 33 | 24 | 32 | 24 | 30 | 24 | 30 | 24 |
| 9... | 39 | 27 | 33 | 20 | 38 | 20 | 34 | 28 | 41 | 23 | 35 | 26 | 42 | 27 | 33 | 27 | 34 | 27 | 30 | 19 | 32 | 26 | 32 | 25 | 34 | 20 | 33 | 17 |
| 10... | 35 | 28 | 33 | 19 | 40 | 20 | 31 | 27 | 44 | 27 | 35 | 28 | 37 | 27 | 32 | 25 | 36 | 25 | 33 | 13 | 34 | 23 | 36 | 20 | 31 | 14 | 29 | 7 |
| 11... | 39 | 27 | 36 | 24 | 43 | 24 | 38 | 27 | 50 | 23 | 41 | 26 | 46 | 26 | 34 | 23 | 41 | 25 | 36 | 18 | 40 | 24 | 40 | 21 | 37 | 16 | 35 | 6 |
| 12... | 51 | 32 | 38 | 24 | 49 | 30 | 46 | 32 | 53 | 29 | 44 | 34 | 54 | 32 | 42 | 27 | 46 | 29 | 47 | 26 | 51 | 30 | 46 | 31 | 42 | 26 | 38 | 15 |
| 13... | 47 | 27 | 40 | 31 | 47 | 28 | 48 | 26 | 56 | 37 | 50 | 28 | 52 | 28 | 43 | 27 | 40 | 21 | 43 | 27 | 43 | 22 | 48 | 28 | 40 | 23 | 41 | 12 |
| 14... | 29 | 23 | 36 | 22 | 30 | 18 | 27 | 22 | 42 | 25 | 28 | 23 | 31 | 23 | 27 | 20 | 22 | 17 | 27 | 17 | 22 | 16 | 28 | 18 | 36 | 21 | 37 | 23 |
| 15... | 38 | 17 | 38 | 15 | 38 | 14 | 36 | 22 | 51 | 22 | 39 | 21 | 42 | 18 | 35 | 19 | 33 | 15 | 25 | 13 | 29 | 17 | 25 | 16 | 31 | 20 | 32 | 16 |
| 16... | 46 | 28 | 40 | 32 | 39 | 29 | 41 | 27 | 54 | 15 | 49 | 30 | 52 | 29 | 38 | 29 | 36 | 26 | 34 | 14 | 37 | 25 | 39 | 25 | 38 | 16 | 38 | 13 |
| 17... | 33 | 27 | 42 | 29 | 37 | 22 | 32 | 28 | 49 | 28 | 34 | 29 | 37 | 27 | 30 | 23 | 30 | 20 | 15 | 4 | 25 | 19 | 28 | 15 | 18 | 6 | 18 | 4 |
| 18... | 53 | 28 | 60 | 29 | 60 | 25 | 56 | 28 | 66 | 30 | 50 | 31 | 54 | 30 | 45 | 26 | 44 | 25 | 32 | 8 | 38 | 20 | 36 | 15 | 33 | 6 | 31 | − 3 |
| 19... | 66 | 36 | 57 | 42 | 70 | 39 | 68 | 44 | 65 | 28 | 69 | 46 | 68 | 44 | 68 | 42 | 60 | 37 | 54 | 19 | 67 | 34 | 62 | 34 | 46 | 21 | 45 | 12 |
| 20... | 59 | 32 | 55 | 38 | 61 | 41 | 56 | 34 | 65 | 34 | 55 | 36 | 60 | 36 | 57 | 34 | 51 | 34 | 51 | 32 | 52 | 33 | 56 | 35 | 44 | 32 | 53 | 32 |
| 21... | 51 | 32 | 52 | 24 | 58 | 24 | 52 | 29 | 61 | 26 | 57 | 33 | 58 | 33 | 49 | 30 | 41 | 31 | 44 | 25 | 51 | 30 | 51 | 29 | 43 | 25 | 43 | 26 |
| 22... | 60 | 38 | 64 | 41 | 66 | 46 | 64 | 41 | 68 | 43 | 66 | 42 | 73 | 43 | 62 | 42 | 49 | 39 | 55 | 34 | 59 | 43 | 60 | 43 | 50 | 35 | 55 | 38 |
| 23... | 54 | 37 | 69 | 35 | 66 | 31 | 55 | 37 | 73 | 39 | 51 | 38 | 49 | 39 | 50 | 33 | 53 | 34 | 40 | 26 | 44 | 35 | 53 | 33 | 38 | 27 | 48 | 28 |
| 24... | 81 | 41 | 65 | 50 | 83 | 44 | 83 | 50 | 83 | 54 | 85 | 51 | 83 | 46 | 82 | 50 | 70 | 44 | 72 | 28 | 81 | 40 | 78 | 46 | 63 | 28 | 68 | 29 |
| 25... | 68 | 39 | 54 | 42 | 66 | 47 | 62 | 42 | 75 | 42 | 66 | 46 | 73 | 52 | 65 | 44 | 52 | 35 | 61 | 37 | 69 | 37 | 71 | 36 | 64 | 41 | 69 | 42 |
| 26... | 60 | 38 | 69 | 44 | 68 | 38 | 55 | 41 | 72 | 38 | 56 | 40 | 59 | 39 | 51 | 38 | 47 | 33 | 42 | 34 | 48 | 37 | 43 | 34 | 41 | 36 | 42 | 34 |
| 27... | 70 | 43 | 72 | 42 | 72 | 41 | 76 | 46 | 85 | 46 | 80 | 43 | 80 | 43 | 70 | 42 | 64 | 36 | 48 | 27 | 56 | 35 | 56 | 31 | 44 | 32 | 48 | 32 |
| 28... | 77 | 59 | 63 | 46 | 76 | 52 | 74 | 62 | 81 | 55 | 72 | 61 | 81 | 60 | 72 | 62 | 62 | 41 | 69 | 36 | 74 | 52 | 76 | 52 | 62 | 35 | 64 | 34 |
| 29... | 74 | 54 | 72 | 56 | 82 | 52 | 81 | 57 | 77 | 54 | 80 | 59 | 80 | 60 | 80 | 55 | 72 | 40 | 68 | 41 | 80 | 48 | 78 | 52 | 68 | 47 | 69 | 40 |
| 30... | 73 | 50 | 68 | 54 | 75 | 50 | 78 | 60 | 77 | 58 | 78 | 65 | 76 | 61 | 78 | 66 | 68 | 54 | 59 | 48 | 74 | 62 | 75 | 61 | 58 | 41 | 66 | 33 |
| 31... | 60 | 43 | 60 | 40 | 68 | 41 | 68 | 43 | 68 | 45 | 67 | 43 | 61 | 47 | 70 | 41 | 68 | 36 | 66 | 43 | 70 | 47 | 68 | 45 | 57 | 45 | 54 | 40 |
| Mns | 53.6 | 34.5 | 50.2 | 32.8 | 55.3 | 32.7 | 53.2 | 35.9 | 60.3 | 35.1 | 54.3 | 36.8 | 56.7 | 36.6 | 51.3 | 34.6 | 47.9 | 31.5 | 45.1 | 26.1 | 50.3 | 32.6 | 50.2 | 32.2 | 43.6 | 27.1 | 44.4 | 23.5 |

# Climatological Data for March, 1910.
## DISTRICT No. 5, UPPER MISSISSIPPI VALLEY.

GEORGE M. CHAPPEL, District Editor.

### TEMPERATURE.

March, 1910, will long be remembered as being the warmest and driest month in the history of the upper Mississippi Valley. It gave a much larger percentage of sunshine, fewer cloudy days, less wind movement, the least number of days with an appreciable amount of precipitation, the least number of days with freezing temperature, and less snowfall than any other March on record. The mean monthly temperature was above the normal over all the district, and the daily means were above the normal at many stations in the district, on every day of the month.

In North Dakota, abnormally high temperature characterized the weather during the month. The mean temperature was 41.3°, or 20.3° above the normal. This was the highest temperature for any March in the climatological history of the State. The former high record was in 1905, when the average was 32.5°. The first day was the coldest, and the 3-day period from the 21st to the 23d, inclusive, was the hottest. During the latter period the maximum temperatures ranged from 80° to 90°.

In Minnesota the month was remarkably warm, dry, and sunshiny. In fact, it was by far the warmest, driest, and clearest March on record. The mean temperature ranged from about 44° in the southern counties, to about 36° on the international boundary. The excess in temperature ranged from 14° in the east, to 18° above the normal in the western part of the State. The 23d was the warmest day, and the coldest days occurred between the 7th and 9th. The temperatures on the 23d were the highest ever recorded in the State in March, as shown by various records, extending back 10 to 88 years.

The month of March, 1910, will be long remembered as a record breaker in Wisconsin. The temperature, over the Mississippi drainage area, averaged about 15° above the normal. The monthly maximum temperatures ranged from 76° in Barron and Price counties, to 86° in Crawford County. No previous March has equalled these records since the establishment of the Weather Bureau in 1871.

As shown by records extending back 10 to 71 years, the month was the warmest March on record in Iowa. It gave the largest amount of sunshine, and the least number of days with freezing temperature in the history of the State. The temperature was uniformally high and above the normal every day of the month, with the warmest period between the 22d and the 29th. The maximum occurred generally on the 23d, and ranged from 80° in the northern, to 90° in the southern counties. The monthly minimum temperatures occurred on various dates between the 1st and the 15th.

In Missouri the month was the warmest and driest that has occurred during the period covered by authentic climatological records. The temperature was continuously above the normal, except on the 9th, 10th, 13th, and 15th; the average daily excess amounted to 13°. There were no freezing temperatures after about the middle of the month and during the last decade the day temperatures were about 90°.

In Indiana the weather for the month was remarkable for its unusual warmth and dryness, excess of sunshine, and the absence of high winds and destructive storms. The mean temperature was probably the highest that has ever been recorded in this section of the State, during the month of March, since the establishment of the Weather Bureau. The temperature was continuously above the normal throughout the month, except during a brief cool spell which prevailed on the 14th and 15th; the mimimum for the month being generally recorded on the latter date. The last freezing temperature occurred on the 23d, from which date until the close of the month, unseasonably warm weather prevailed. Maximum temperatures in excess of 80° were recorded at all stations on the 24th, 27th, and 28th.

The mean temperature in Illinois was 51.0° or 11.6° above the normal. The average number of days with minimum temperatures of 32° or lower, was 10. The monthly mean exceeds all former records for March.

The monthly mean temperature for the district, as shown by the records of 298 stations, was 45.9°, which is 14.6° above the normal. The highest monthly mean was 59.6° at Carbondale, Ill., and the lowest 34.5°, at Pembina, N. Dak. The highest temperature reported was 93° at Carbondale and Mascoutah, Ill., on the 23d, and the lowest, −7° at Long Lake, Wis., on the 9th.

### PRECIPITATION.

There was a marked deficiency of precipitation in all parts of the district, except over portions of North Dakota and the extreme northwestern counties of Minnesota. There was not only a deficiency of precipitation, but the amounts of snowfall were much less than usual during the month of March, and there was practically no snowfall south of Minnesota and Wisconsin.

While there was a slight excess of precipitation in North Dakota the first 3 weeks of the month were dry and only scattered precipitation in small amounts occurred, but during the last week it was more general and the amounts were larger. Nearly all of the precipitation was in the form of rain.

In Minnesota the precipitation was practically inappreciable over the southern half of the State, and was below the normal in all but the extreme northwestern corner, where some of the monthly amounts were in excess of an inch. The greatest 24–hour precipitation occurred generally on the 29th and 30th. On those dates there were thunderstorms, confined mainly to the western and northern counties.

The average monthly precipitation in Wisconsin, was only 0.10 inch, which is less than for any other March on record. The amount of clear weather and the percentage of sunshine were abnormally large, and the lack of high winds and storms contributed to making the weather ideal for comfort. At the beginning of the month there was from 1 foot to 2 feet of snow on the ground, but this melted steadily and had almost disappeared by the 15th.

There was no snowfall in excess of a trace at any station in Iowa, and the rainfall was abnormally light in all sections of the State. There were 2 stations that had no precipitation, and 14 that had only a trace. Rainfall was practically nil until the 26th, and the only days on which showers were at all general were the 26th and 29th. On March 1 there were 6 to 8 inches of snow on the ground in the northern part of the State, but it had all melted by the 9th, and as there was practically no frost in the ground, the soil dried rapidly.

The precipitation was noticeably deficient at all stations in Missouri; the total monthly fall being only about 14 per cent of the normal. There were 22 clear days, and only 3 wholly cloudy days.

In Indiana the month was the driest March on record. Light rain fell on the 1st, 20th, 30th, and 31st. A few local showers occurred on other dates, but the amounts of rainfall were generally inappreciable. Only 1 station reported a measureable amount of snowfall, although a trace was recorded at all of the remaining stations of this watershed.

In Illinois the average precipitation was 0.26 inch, which is 2.69 inches below the normal, and the least average on record. The average snowfall was a trace, and the average number of

rainy days was 2. The previous low record occurred in 1885, when the average for the State was about one-half inch. The wettest March on record was in 1898, when the average was more than 7.00 inches.

The average precipitation for the district, as shown by the records of 311 stations, was 0.32 inch, which is 1.74 inches below the normal. The greatest amount, 2.37 inches, occurred at Donnybrook, N. Dak., while at 2 stations in Iowa, there was no precipitation. Measureable amounts of snow fell at only 54 stations in the district; the average amount being 0.2 inch, and the greatest total snowfall was 7.00 inches at Hallock, Minn.

### SUNSHINE AND CLOUDINESS.

The average numder of clear days was 21; partly cloudy, 7, and cloudy, 3. The duration of sunshine was much above the normal.

### WIND.

Southwest winds prevailed. The highest velocity reported was 60 miles per hour, from the northwest, at Devils Lake, N. Dak., on the 6th.

### MISCELLANEOUS.

The abnormally warm and dry weather caused the soil to dry rapidly and as a result farmers were doing their spring field work much earlier than usual. The remainder of last year's corn crop was gathered in Iowa, and practically all of the small grain was seeded in the southern, and a large percentage of it, in the northern sections. Fall grain and grasses were generally in good condition, although there was some loss by winter killing and droughty conditions during March in Illinois, Missouri, and southern Iowa. Before the end of the month spring sown grain was up, and showed a good stand in southern sections; much of the corn ground had been prepared; pastures, meadows, and many of the forest trees were green or rapidly becoming so, in southern and middle sections. All fruit trees were in bloom in Missouri and southern Illinois, and plum trees were in bloom as far north as northern Iowa. The season was about a month in advance of the normal.

The rivers of the district were at a normal stage for the season. Navigation opened on the Mississippi River north of St. Louis, Mo., on March 1. Ice moved out of the Mississippi River at Dubuque, Iowa, about the middle of the month, and the ice broke up in the smaller rivers in Iowa, from the 1st in the southern, to the 10th or 12th in the northern sections. The northern lakes in Minnesota opened on the 23d. which is the earliest on record. The Red River of the North broke up between the 23d and 28th; 20 to 25 days earlier than usual. The thickness of the ice ranged from 24 to 30 inches, but it passed out quietly, as it did in all of the rivers of the district.

### DRAINAGE AND ENGINEERING NOTES.

Preliminary arrangements are being made for a big drainage project in Muscatine and Louisa counties, Iowa. It is intended to drain 28 sections of land in Louisa, and 38 sections in Muscatine County, at a cost of $100,000.00 which will include the cost of a pumping station.

The preliminary survey for determining the practicability of making the Des Moines River navigable from its mouth to Des Moines, Iowa, was begun about the middle of the month The work is being done under the supervision of an engineer of the United States Army.

The Iowa State Drainage, Waterways and Conservation Commission is contemplating the erection of several dams on the upper Des Moines River and its tributaries in northern Iowa, for the purpose of storage during periods of high water, and to enable them to increase the flow in the lower river during the periods of low water. Some preliminary surveys have been made with the view of finding suitable location for such dams.

One of the largest drainage projects yet undertaken in the upper Mississippi Valley is being conducted under the joint control of Beltrami and Marshall counties, Minn. The system when completed, will drain 600,000 acres, and it will have cost $600,000.00. The aggregate length of the mains and laterals will be 553 miles, and the contract calls for the removal of 5,000,000 cubic yards of dirt, which is to be used in constructing a roadway alongside the ditch right of way. Of the 600,000 acres subject to the drainage scheme about 250,000 acres are Government land, subject to homestead entry, lying in what was once the Red Lake Indian Reservation. It is said that this is the first time in the history of Minnesota that the Federal Government has associated with the State in the drainage of any considerable tract of land for agricultural and reclamation purposes. The cost of the drainage will eventually be assessed to those who homestead the land.

The Boards of Supervisors of Wright and Hamilton counties, Iowa, in joint session, have called for sealed bids, for the construction of what is known as the Whister Drainage Ditch in Hamilton County and Joint Ditch No. 48, in Wright County.

The Board of Supervisors of Wright County, Iowa, has advertised for sealed bids for drainage work to be done during the year 1910: Drain No. 39, located near Clarion and divided into 9 sections.

Drain No. 40, located in Blaine Township, and divided into 7 sections.

Drain No. 41, located in Wall, Lake, and Vernon townships, and divided into 8 sections.

Drain No. 42, located in Grant and Lake townships and, divided into 3 sections.

Drain No. 43, located near Rowan, and divided into 19 sections.

TABLE 1.—*Climatological data for March, 1910. District No. 5, Upper Mississippi Valley.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *North Dakota.* | | | | | | | | | | | | | | | | | | | | |
| Amenia | Cass | 954 | 12 | 39.0 | +17.2 | 76 | 21 | − 5 | 1 | 52 | 1.42 | + 0.74 | 1.27 | 0.0 | 2 | 14 | 11 | 6 | nw. | C. E. Wood. |
| Bottineau | Bottineau | 1,638 | 14 | 37.0 | +11.2 | 71 | 22 | 5 | 1 | 42 | 0.72 | − 0.32 | 0.48 | ..... | 4 | 13 | 10 | 8 | nw. | J. A. Kemp. |
| Cando | Towner | 1,488 | 8 | 40.4 | +20.3 | 87 | 23 | 8 | 1 | 49 | 0.35 | − 0.09 | 0.28 | 0.0 | 2 | 25 | 4 | 2 | w. | E. T. Judd. |
| Crosby | Williams | ..... | 3 | 40.2 | ..... | 81 | 22 | − 1 | 1 | 40 | 1.79 | ..... | 1.29 | 0.0 | 5 | 22 | 5 | 4 | sw. | H. C. Kaschau. |
| Devils Lake | Ramsey | 1,482 | 4 | 39.6 | +21.1 | 85 | 23 | 11 | 7 | 43 | 0.34 | − 0.67 | 0.25 | 0.2 | 5 | 11 | 15 | 5 | w. | U. S. Weather Bureau. |
| Donnybrook | Ward | 1,760 | 10 | 42.5 | +21.4 | 81 | 22 | 8 | 1 | 48 | 2.37 | + 1.27 | 1.40 | 0.0 | 3 | 19 | 5 | 7 | sw. | C. J. De Vore. |
| Dunseith | Rolette | ..... | 12 | 38.9 | +21.9 | 80 | 23 | 6 | 1† | 50 | 1.13 | + 0.28 | 0.75 | T. | 2 | 25 | 2 | 4 | w. | L. H. Trowbridge. |
| Edmore | Ramsey | 1,524 | 4 | 40.6 | ..... | 90 | 23 | 10 | 7 | 45 | 0.00 | ..... | 0.00 | 0.0 | 0 | 23 | 5 | 3 | nw. | H. R. Aslakson. |
| Forman | Sargent | 1,249 | 15 | 46.2 | +23.0 | 84 | 24 | 11 | 1 | 48 | 0.66 | − 0.47 | 0.33 | 0.0 | 2 | 14 | 9 | 8 | nw. | A. Maltby. |
| Grafton | Walsh | 827 | 12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | H. La Moure. |
| Granville | McHenry | 1,504 | 3 | 42.2[a] | ..... | 82[a] | 23 | 11[a] | 7 | 47[a] | 0.96 | ..... | 0.33 | 0.0 | 3 | ..... | ..... | ..... | ..... | W. A. Christiansen. |
| Hannah | Cavalier | 1,568 | 4 | 39.6 | ..... | 82 | 23 | 8 | 7 | 42 | 0.47 | ..... | 0.36 | T. | 2 | 21 | 6 | 4 | s. | J. Moffatt. |
| Hansboro | Towner | ..... | 2 | 38.0 | ..... | 82 | 23 | 6 | 7 | 39 | 1.21 | ..... | 1.10 | T. | 2 | 20 | 5 | 6 | nw. | Geo. Dale. |
| Hillsboro | Traill | 901 | 4 | 42.1 | ..... | 78 | 23 | 13 | 9 | 41 | 0.58 | ..... | 0.30 | 0.0 | 3 | 16 | 8 | 7 | nw. | M. H. Norman. |
| Lakota | Nelson | 1,519 | 3 | 38.6 | ..... | 85 | 23 | 12 | 7 | 37 | 0.96 | ..... | 0.50 | 0.5 | 3 | 16 | 11 | 4 | nw. | C. R. Pettes. |
| Langdon | Cavalier | 1,615 | 14 | 38.0 | ..... | 77 | 21 | 5 | 9 | 56 | 1.57 | ..... | 1.09 | T. | 5 | 13 | 3 | 15 | w. | J. Woolner. |
| Larimore | Grand Forks | 1,134 | 14 | 38.9 | +19.4 | 85 | 23 | 9 | 9 | 40 | 0.40 | − 0.54 | 0.40 | 4.0 | 2 | 17 | 12 | 2 | w. | S. R. Britton. |
| Lisbon | Ransom | 1,091 | 5 | 44.2 | ..... | 83 | 20 | 6 | 2 | 46 | 1.05 | ..... | 0.60 | 0.0 | 2 | 21 | 4 | 6 | nw. | H. K. Adams. |
| McKinney | Ward | 1,640 | 15 | 40.2 | +23.3 | 80 | 22 | 7 | 1 | 55 | 2.14 | + 1.31 | 1.36 | 0.0 | 4 | 16 | 12 | 3 | nw. | N. P. Swenson. |
| Manfred | Wells | 1,605 | 8 | 40.7 | ..... | 84 | 23 | 0 | 6 | 42 | 0.36 | ..... | 0.20 | 0.0 | 4 | 18 | 9 | 4 | sw. | P. B. Anderson. |
| Mayville | Traill | 975 | 14 | 41.4 | +19.5 | 81 | 23 | 11 | 8 | 35 | 1.04 | + 0.26 | 0.85 | 0.0 | 2 | 18 | 9 | 4 | nw. | M. N. Pope |
| Minot | Ward | 1,557 | 11 | 42.6 | +25.2 | 89 | 22 | 11 | 1† | 46 | 1.37 | + 0.47 | 0.51 | 0.0 | 4 | 23 | 3 | 5 | w. | J. J. Bates. |
| Minto | Walsh | 820 | 16 | 41.8[i] | +22.6 | 81[i] | 23 | 10[i] | 9 | 50[i] | 1.15 | + 0.23 | 0.85 | ..... | 3 | ..... | ..... | ..... | ..... | S. S. Marsh. |
| Oriska | Barnes | 1,270 | 4 | 42.4 | ..... | 84 | 23 | 13 | 7 | 47 | 1.16 | ..... | 0.87 | 1.0 | 2 | 12 | 18 | 1 | nw. | W. E. Williams. |
| Park River | Walsh | 998 | 6 | 40.1[a] | ..... | 84[a] | 23 | 10[a] | 9 | 44[a] | 0.85 | ..... | 0.40 | 0.3 | 4 | ..... | ..... | ..... | w. | A. Heyward. |
| Pembina | Pembina | 789 | 11 | 34.5 | +16.8 | 72 | 18 | 8 | 7 | 39 | 0.95 | − 0.16 | 0.45 | 4.0 | 3 | 14 | 7 | 10 | w. | C. W. Shumaker. |
| Portal | Ward | 1,954 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | M. S. Davis. |
| Power | Richland | 1,020 | 17 | 40.7 | + 18.5 | 83 | 21 | 10 | 8 | 57 | 0.53 | − 0.29 | 0.38 | ..... | 3 | 23 | 4 | 4 | nw. | J. A. Power. |
| Pratt | McHenry | ..... | 5 | 40.8 | ..... | 78 | 23 | 5 | 1 | 49 | 2.18 | ..... | 1.40 | 0.0 | 1 | 23 | 4 | 4 | nw. | C. H. Butts. |
| University | Grand Forks | 830 | 18 | 44.0 | +26.3 | 83 | 20† | 9 | 9 | 51 | 1.22 | + 0.45 | 1.17 | T. | 2 | ..... | ..... | ..... | ..... | W. R. Holgate. |
| Wahpeton | Richland | 962 | 18 | 39.6 | +12.9 | 80 | 23 | 10 | 1 | 40 | 0.16 | 0.95 | 0.16 | T. | 1 | 21 | 3 | 7 | nw. | E. G. Burch. |
| Walhalla | Pembina | 966 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C. H. Lee. |
| Westhope | Bottineau | ..... | 3 | 39.9[a] | ..... | 77 | 23 | 7[a] | 1 | 50[a] | 2.29 | ..... | 1.27 | T. | 4 | 23 | 5 | 3 | nw. | J. D. Currie. |
| Willow City | ....do | 1,471 | 16 | 39.0 | +22.1 | 83 | 23 | 9 | 1 | 55 | 0.94 | + 0.42 | 0.56 | 0.0 | 2 | 20 | 9 | 2 | nw. | M. A. Ostby. |
| *Minnesota.* | | | | | | | | | | | | | | | | | | | | |
| Albert Lea | Freeborn | 1,229 | 20 | 45.6 | +17.1 | 84 | 23 | 20 | 8† | 41 | T. | − 1.45 | T. | 0.0 | 0 | 16 | 13 | 2 | nw. | Edward Carey. |
| Alexandria | Douglas | 1,391 | 16 | 40.2 | +17.2 | 79 | 23 | 12 | 2† | 41 | 0.07 | − 1.04 | 0.04 | 0.0 | 2 | 19 | 5 | 7 | nw. | P. O. Unumb. |
| Angus | Polk | 870 | 8 | 38.3 | ..... | 76 | 23 | 7 | 9 | 40 | 0.76 | ..... | 0.47 | T. | 3 | 19 | 7 | 5 | n. | John Nadvornik. |
| Bagley | Clearwater | ..... | 4 | 39.1 | ..... | 80 | 23 | − 2 | 9 | 44 | 0.59 | ..... | 0.34 | T. | 5 | 18 | 9 | 4 | sw. | Jens Nelson. |
| Baudette | Beltrami | 1,084 | 1 | 36.1 | ..... | 76 | 23 | − 1 | 2† | 42 | 0.96 | ..... | 0.44 | T. | 3 | 21 | 4 | 6 | nw. | Frans W. Schmidt. |
| Beardsley | Big Stone | 1,090 | 17 | 44.6[c] | +18.3 | 83 | 23 | 20[c] | 7† | 45[c] | 0.06[a] | − 1.34[a] | 0.06[a] | 0.0 | 1[a] | 17[b] | 10[b] | 2[b] | nw.[a] | Roy A. Smith. |
| Beaulieu | Mahnomen | 1,200 | 8 | 38.2[a] | ..... | 68[a] | 18 | 8[a] | 9 | 36[a] | 0.55 | ..... | 0.20 | 1.0 | 5 | 15 | 9 | 7 | sw. | Dr. L. A. Parkinson. |
| Bird Island | Renville | 1,039 | 20 | 44.4 | +17.2 | 85 | 23 | 18 | 9 | 46 | 0.13 | − 0.92 | 0.08 | T. | 2 | 21 | 6 | 4 | nw. | Dr. F. L. Puffer. |
| Caledonia | Houston | 1,179 | 17 | 43.2 | +13.5 | 78 | 23† | 10 | 1 | 37 | 0.00 | − 1.99 | 0.00 | 0.0 | 0 | 23 | 2 | 6 | sw. | W. D. Belden. |
| Campbell | Wilkin | 984 | .... | 40.8 | ..... | 81 | 23 | 11 | 8 | 46 | 0.35 | ..... | 0.20 | ..... | 3 | 20 | 2 | 9 | nw. | J. T. Neisess. |
| Cass Lake | Cass | 1,300 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.15 | ..... | 0.10 | 0.5 | 2 | ..... | ..... | ..... | ..... | C. W. Burns. |
| Collegeville | Stearns | 1,282 | 17 | 43.9 | +17.3 | 81 | 23 | 13 | 7 | 34 | 0.11 | − 1.09 | 0.11 | 0.0 | 1 | 21 | 3 | 7 | sw. | Fridolin Tembreul. |
| Crookston | Polk | 863 | 20 | 37.5 | +17.1 | 73 | 23 | 10 | 7 | 38 | 0.64 | − 0.54 | 0.29 | 0.0 | 4 | 17 | 3 | 11 | s. | A. G. Andersen. |
| Detroit | Becker | 1,364 | 14 | 38.2 | +17.3 | 78 | 23 | 12 | 8 | 44 | 0.18 | − 0.78 | 0.08 | 2.0 | 3 | 21 | 4 | 6 | nw. | George W. Peoples. |
| Fairmont (near) | Martin | 1,240 | 23 | 44.8 | +16.8 | 77 | 23† | 23 | 8 | 32 | 0.09 | − 1.46 | 0.06 | T. | 2 | 21 | 3 | 1 | nw. | W. F. Wherland. |
| Faribault | Rice | 1,003 | 13 | 43.8 | +13.5 | 81 | 23 | 18 | 7† | 37 | 0.25 | − 0.99 | 0.21 | 0.5 | 3 | 23 | 7 | 1 | nw. | Dr. A. R. T. Wylie. |
| Farmington | Dakota | 902 | 22 | 43.6 | +16.0 | 82 | 23 | 17 | 7 | 41 | 0.04 | − 1.93 | 0.04 | T. | 1 | 18 | 7 | 6 | sw. | D. F. Akin. |
| Fergus Falls | Ottertail | 1,210 | 18 | 41.7 | +17.0 | 77 | 23 | 14 | 1† | 36 | 0.20 | − 0.84 | 0.20 | 0.3 | 1 | 23 | 6 | 2 | nw. | Chas. E. Kissenger. |
| Fort Ripley | Crow Wing | 1,136 | 4 | 39.6 | ..... | 84 | 23 | 4 | 9 | 50 | 0.10 | − 0.99 | 0.10 | 0.0 | 1 | 15 | 5 | 11 | s. | J. J. Tucker. |
| Fosston | Polk | 1,289 | 1 | 39.4 | ..... | 82 | 23 | 10 | 7 | 54 | 1.77 | ..... | 1.35 | 0.5 | 4 | 11 | 17 | 3 | sw. | O. N. Hem. |
| Glencoe | McLeod | 1,000 | 14 | 44.8 | +17.0 | 82 | 23 | 18 | 7 | 40 | T. | − 0.92 | T. | 0.0 | 0 | 20 | 10 | 1 | sw. | C. G. Selvig. |
| Grand Meadow | Mower | 1,338 | 23 | 44.5 | +17.3 | 81 | 23 | 18 | 8 | 41 | T. | − 1.91 | T. | T. | 0 | 22 | 8 | 1 | sw. | C. F. Greening. |
| Hallock | Kittson | 815 | 11 | 36.8 | +18.2 | 77 | 23 | − 3 | 10 | 42 | 1.80 | + 0.48 | 1.60 | 7.0 | 4 | 24 | 0 | 7 | n. | D. A. Robertson. |
| Halstad | Norman | 870 | 4 | 39.0 | ..... | 78 | 23 | 10 | 9 | 44 | 0.84 | ..... | 0.45 | ..... | 4 | 22 | 7 | 2 | s. | Aaron G. Holstrom. |
| Hinckley | Pine | 1,050 | 5 | 41.1 | ..... | 79 | 23 | 11 | 9 | 43 | T. | ..... | T. | 0.0 | 0 | 5 | 20 | 6 | s. | W. R. Newman. |
| International Falls | Koochiching | 1,112 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Rees Roe. |
| Kelliher | Beltrami | ..... | 3 | 35.7[f] | ..... | 78[f] | 23 | 1[f] | 9 | 37[f] | 0.04[f] | ..... | ..... | 1.0[f] | ... | 21[f] | 2[f] | 2[f] | sw.[f] | A. Gilmour. |
| Lake Crystal | Blue Earth | ..... | 3 | 44.2 | ..... | 82 | 23 | 20 | 2 | 42 | 0.01 | ..... | 0.01 | 0.0 | 1 | 25 | 3 | 3 | s. | W. P. Cobb. |
| Leech Lake Dam | Cass | 1,301 | 22 | 37.8 | +17.2 | 79 | 23 | 7 | 8 | 42 | 0.29 | − 1.03 | 0.18 | ..... | 4 | 7 | 19 | 5 | s. | Hans Olson. |
| Little Falls | Morrison | 1,117 | 4 | 42.3 | ..... | 83 | 23 | 8 | 1 | 38 | 0.20 | ..... | 0.13 | T. | 2 | 19 | 12 | 0 | nw. | Maurice Coleman. |
| Little Fork | Koochiching | ..... | ..... | ..... | ..... | 78[a] | 23 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | O. C. Olson. |
| Long Prairie | Todd | 1,299 | 18 | 42.8 | +18.2 | 83 | 23 | 7 | 9 | 45 | 0.13 | − 1.09 | 0.13 | T. | 1 | 20 | 5 | 6 | sw. | R. M. Sheets. |
| Lynd (2) | Lyon | 1,175 | 18 | 45.5 | +18.1 | 85 | 23 | 15 | 1 | 42 | 0.08 | − 1.16 | 0.08 | T. | 1 | 25 | 3 | 3 | sw. | J. W. Rouse. |
| Mankato | Blue Earth | 747 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | − 1.06 | T. | 0.0 | 0 | 21 | 5 | 5 | sw. | Sadie H. Blake. |
| Maplelain | Hennepin | 1,023 | 18 | 42.2[c] | +14.5 | 81[c] | 23 | 15[c] | 7 | 40[c] | 0.08[c] | ..... | 0.08[c] | 0.8[c] | ... | 20[c] | 6[c] | 2[c] | nw.[c] | G. W. Richards. |
| Milaca | Millelacs | 1,072 | 13 | 40.4 | ..... | 81 | 23 | 10 | 9 | 44 | T. | − 0.98 | T. | T. | 0 | 16 | 12 | 3 | s. | C. H. Foss. |
| Milan | Chippewa | 955 | 16 | 43.6 | +16.8 | 85 | 23 | 18 | 8† | 46 | 0.13 | − 1.40 | 0.13 | T. | 1 | 9 | 20 | 2 | se. | O. K. Opjorden. |
| Minneapolis | Hennepin | 918 | 19 | 45.0 | +16.2 | 83 | 23 | 16 | 7 | 35 | 0.09 | − 1.56 | 0.05 | 0.9 | 2 | 20 | 7 | 4 | s. | U. S. Weather Bureau. |
| Montevideo | Chippewa | 900 | 23 | 45.2 | +18.6 | 88 | 23 | 18 | 8 | 50 | 0.13 | − 1.24 | 0.12 | T. | 3 | 22 | 7 | 2 | se. | Lloyd G. Moyer. |
| Moorhead | Clay | 935 | 29 | 40.9 | +19.5 | 80 | 23 | 14 | 7 | 39 | 0.36 | − 0.78 | 0.22 | 0.1 | 3 | 19 | 8 | 4 | nw. | U. S. Weather Bureau. |
| Mora | Kanabec | ..... | 5 | 41.7 | ..... | 82 | 23 | 10 | 9 | 44 | 0.09 | ..... | 0.05 | 0.0 | 3 | 26 | 5 | 0 | w. | Hans Peterson. |
| Morris | Stevens | 1,170 | 25 | 42.9 | +18.2 | 83 | 23 | 15 | 8 | 41 | 0.48 | − 0.49 | 0.45 | 2.0 | 2 | 26 | 3 | 2 | nw. | D. T. Wheaton. |
| New London | Kandiyohi | 1,215 | 16 | 42.4 | +16.9 | 83 | 23 | 12 | 11 | 42 | 0.10 | − 1.25 | 0.07 | 0.0 | 2 | 18 | 12 | 1 | sw. | Harold Swenson. |
| New Richland | Waseca | 1,180 | 16 | 45.2 | +15.1 | 81 | 23 | 20 | 8 | 36 | 0.10 | ..... | 0.06 | 0.2 | 2 | 24 | 6 | 1 | sw. | N. O. Tyrholm. |
| New Ulm | Brown | 791 | 30 | 46.2 | +18.8 | 86 | 23 | 19 | 8 | 42 | 0.10 | − 1.50 | 0.10 | T. | 1 | 18 | 1 | 12 | s. | Andrew J. Eckstein. |
| Osakis | Douglas | 1,343 | 3 | 41.6 | ..... | 83 | 23 | 17 | 7 | 40 | 0.07 | ..... | 0.06 | T. | 2 | 20 | 4 | 7 | w. | J. B. Johnson. |
| Park Rapids | Hubbard | 1,426 | 20 | 39.0 | +18.1 | 80 | 23 | 7 | 9 | 41 | 0.18 | − 0.92 | 0.11 | 0.2 | 3 | 18 | 5 | 8 | s. | Dr. P. A. Walling. |
| Pine River Dam | Crow Wing | 1,251 | 23 | 37.8 | +16.1 | 82 | 23 | 2 | 9 | 46 | 0.15 | − 1.08 | 0.15 | T. | 1 | 18 | 11 | 2 | sw. | Neil McKay. |
| Pokegama Falls | Itasca | 1,280 | 23 | 38.0 | +17.8 | 76 | 23 | 2 | 9 | 44 | 0.29 | − 1.16 | 0.21 | 1.0 | 2 | 13 | 13 | 5 | sw. | Arthur L. Mampel. |
| Red Lake | Beltrami | 1,152 | 2 | 37.0 | ..... | 80 | 23 | 4 | 9 | 55 | 1.06 | ..... | 0.67 | T. | 3 | 14 | 12 | 5 | s. | A. C. Goddard. |
| Red Wing | Goodhue | 680 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.04 | − 1.16 | 0.04 | 0.5 | 1 | 21 | 3 | 7 | se. | Louis Bach. |
| Redwood Falls | Redwood | 1,050 | 3 | 46.7 | ..... | 86 | 23 | 19 | 8 | 44 | 0.07 | − 0.81 | 0.07 | 0.0 | 1 | 25 | 4 | 2 | nw. | N. B. Anderson. |
| Reeds Landing | Wabasha | 681 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | − 1.24 | T. | 0.3 | 0 | 22 | 5 | 4 | nw. | John Deschneau. |
| Rochester | Olmsted | 991 | 6 | 43.4 | ..... | 82 | 23 | 13 | 1 | 45 | T. | ..... | T. | T. | 0 | 20 | 7 | 4 | s. | S. R. Case. |
| Roseau | Roseau | 1,040 | 3 | 36.8 | ..... | 81 | 23 | − 3 | 9 | 45 | 1.41 | ..... | 0.43 | ..... | 6 | 21 | 6 | 4 | s. | A. Waag. |
| St. Charles | Winona | 850 | 19 | 43.4 | +15.2 | 81 | 23 | 13 | 1 | 42 | T. | − 1.48 | T. | 0.0 | 0 | 23 | 0 | 8 | se. | S. W. Gleason. |
| St. Cloud | Sherburne | 1,020 | 32 | 43.0[b] | +16.5 | 81[b] | 23 | 14[b] | 7 | 39[b] | 0.18 | − 1.29 | 0.17 | T. | 2 | 17 | 11 | 3 | nw. | Jos. H. Capser. |
| St. Paul | Ramsey | 837 | 30 | 44.9 | +16.7 | 83 | 23 | 16 | 7 | 36 | 0.16 | − 1.44 | 0.09 | 0.6 | 4 | 19 | 10 | 2 | nw. | U. S. Weather Bureau. |
| St. Peter | Nicollet | 825 | 17 | 47.8 | +16.7 | 84 | 23 | 19 | 8 | 44 | 0.08 | − 1.35 | 0.08 | T. | 1 | 27 | 2 | 2 | s. | Chas. C. Cavanaugh. |
| Sandy Lake Dam | Aitkin | 1,234 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | U. S. Engineer Corps. |
| State Sanatorium | Cass | ..... | 3 | 40.8 | ..... | 81 | 23 | 9 | 9 | 45 | 0.34 | ..... | 0.18 | T. | 3 | 15 | 12 | 4 | sw. | Walter J. Marcley. |
| Stillwater | Washington | 694 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.22 | ..... | 0.16 | 0.5 | 2 | 22 | 4 | 5 | sw. | Oscar Ostrom. |

TABLE 1.—*Climatological data for March, 1910. District No. 5*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | |
| *Minnesota*—Cont'd. | | | | | | | | | | | | | | | | | | | |
| Taylors Falls | Chisago | 739 | 3 | 43.4 | ..... | 82 | 23 | 10 | 8 | 48 | T. | ..... | T. | 0.0 | 0 | 22 | 7 | 2 | s. | Mpls. Gen. Elec. Co. |
| Warroad | Roseau | 1,069 | 1 | 35.2 | ..... | 81 | 23 | − 3 | 10 | 50 | 0.86 | ..... | 0.63 | T. | 2 | 18 | 5 | 8 | w. | John H. Sawyer. |
| West Concord | Dodge | 1,232 | 1 | 43.4 | ..... | 80 | 23 | 18 | 7† | 40 | 0.00 | ..... | 0.00 | 0.0 | 0 | 19 | 11 | 1 | sw. | H. H. Orcutt. |
| Willow River | Pine | 1,046 | 12 | 39.0 | +14.6 | 78 | 23 | 7 | 9 | 47 | 0.22 | − 1.04 | 0.12 | 1.0 | 2 | 19 | 7 | 5 | s. | J. A. Brandt. |
| Windom | Cottonwood | 1,336 | 4 | 45.8 | ..... | 83 | 23 | 30 | 8† | 48 | 0.11 | ..... | 0.11 | 0.0 | 1 | 19 | 12 | 0 | nw. | Taber C. Richmond. |
| Winnebago | Faribault | 1,100 | 11 | 45.6 | +15.4 | 85 | 23 | 19 | 1 | 43 | 0.07 | − 1.36 | 0.07 | 0.0 | 1 | 22 | 6 | 3 | nw. | H. H. Haight. |
| Winnibigoshish | Itasca | 1,300 | 22 | 39.0 | +18.1 | 79 | 23 | 8 | 9 | 41 | 0.23 | − 1.00 | 0.20 | T. | 2 | 21 | 5 | 5 | w. | John Duncan. |
| Winona | Winona | 700 | 15 | 46.6 | +15.7 | 84 | 23 | 18 | 10 | 41 | 0.02 | − 1.61 | 0.02 | 0.2 | 1 | 23 | 7 | 1 | sw. | Perry C. Myers. |
| Worthington | Nobles | 979 | 15 | 44.4 | +15.9 | 78 | 23 | 15 | 16 | 46 | 0.08 | − 1.46 | 0.08 | 0.0 | 1 | 26 | 1 | 4 | s. | W. I. Carpenter |
| Zumbrota | Goodhue | 917 | 15 | 44.6 | +15.3 | 81 | 23 | 18 | 7 | 43 | 0.02 | ..... | 0.02 | 0.2 | 1 | 24 | 7 | 0 | nw. | W. C. Rowell. |
| *South Dakota.* | | | | | | | | | | | | | | | | | | | | |
| Milbank | Grant | 1,148 | 18 | 43.5 | +16.9 | 85 | 23 | 19 | 8 | 47 | 0.35 | − 1.00 | 0.35 | 0.0 | 1 | 20 | 2 | 9 | nw. | I. T. Patridge. |
| *Wisconsin.* | | | | | | | | | | | | | | | | | | | | |
| Antigo | Langlade | 1,489 | 16 | 40.4 | +13.1 | 78 | 29 | − 6 | 3 | 54 | 0.20 | ..... | 0.20 | 2.0 | 1 | 17 | 9 | 5 | w. | Elton C. Larselere. |
| Barron | Barron | 1,115 | 18 | 40.2 | +14.8 | 76 | 29† | 12 | 9† | 46 | T. | − 1.67 | T. | 0.0 | 0 | 25 | 6 | 0 | sw. | Wm. A. Kent. |
| Beloit | Rock | 750 | 23 | 47.4 | +13.8 | 82 | 29 | 20 | 8 | 44 | T. | − 2.19 | T. | T. | 0 | 29 | 1 | 1 | s. | Smith Observatory. |
| Brodhead | Green | 812 | 12 | 45.5 | +11.2 | 84 | 29 | 12 | 10 | 52 | T. | − 2.59 | T. | T. | 0 | 28 | 3 | 0 | sw. | Hecktore D. Kirkpatrick. |
| Burnett | Dodge | 880 | 6 | 42.0 | ..... | 81 | 29 | 9 | 9 | 39 | 0.02 | ..... | 0.02 | 0.8 | 1 | 22 | 6 | 3 | sw. | Geo. W. Smith. |
| Delavan | Walworth | 920 | 17 | 44.6 | +12.7 | 82 | 29 | 14 | 8† | 44 | 0.12 | − 1.75 | 0.10 | T. | 2 | 24 | 5 | 2 | sw. | Elwood S. Austin. |
| Dodgeville | Iowa | 1,116 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Geo. W. Butler |
| Downing | Dunn | 983 | 8 | 41.5 | ..... | 80 | 23 | 4 | 1 | 46 | T. | ..... | T. | 0.0 | 0 | 16 | 7 | 8 | w. | Eugene F. Stoddard. |
| Eau Claire | Eau Claire | 800 | 19 | 44.6 | +16.0 | 82 | 23 | 16 | 7 | 44 | 0.01 | − 2.04 | 0.01 | 0.1 | 1 | 22 | 9 | 0 | nw. | Robert D. Whitford |
| Ellsworth | Pierce | 1,068 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Henry G. Wood. |
| Glidden | Ashland | 1,519 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | George Sell. |
| Grand Rapids | Wood | 1,021 | 11 | 42.5 | +12.9 | 82 | 29 | 14 | 9 | 47 | T. | − 1.60 | T. | T. | 0 | 9 | 21 | 1 | sw. | Willis B. Raymond. |
| Grantsburg | Burnett | 1,005 | 19 | 42.0 | +16.1 | 80 | 23 | 4 | 9 | 54 | 0.10 | − 1.70 | 0.10 | T. | 1 | 23 | 7 | 1 | sw. | Theodore Olsen. |
| Hancock | Waushara | 1,091 | 18 | 42.5 | +13.1 | 83 | 29 | 11 | 3 | 42 | 0.03 | − 1.79 | 0.03 | 0.0 | 1 | 18 | 12 | 1 | sw. | Frederick B. Hamilton. |
| Hatfield | Jackson | 973 | 15 | 43.2 | +14.5 | 80 | 29† | 12 | 10 | 46 | T. | − 1.30 | T. | T. | 0 | 20 | 5 | 6 | s. | Walter S. Woods. |
| Hayward | Sawyer | 1,197 | 19 | 39.6 | +15.3 | 78 | 23† | 4 | 9 | 46 | 0.35 | − 1.71 | 0.25 | 5.2 | 3 | 15 | 12 | 4 | sw. | William E. Swain. |
| Hillsboro | Vernon | 1,000 | 19 | 42.0 | +12.8 | 80 | 29 | 7 | 10 | 45 | T. | − 2.10 | T. | T. | 0 | 20 | 11 | 0 | sw. | Emil V. Wernick. |
| Koepenick | Langlade | 1,683 | 20 | 37.7 | +11.6 | 78 | 29 | − 2 | 9 | 45 | 0.35 | − 1.49 | 0.20 | 2.0 | 4 | ..... | ..... | ..... | s. | Edward S. Koepenick. |
| La Crosse | La Crosse | 714 | 38 | 45.6 | +14.8 | 83 | 23 | 18 | 10 | 29 | 0.06 | − 1.62 | 0.02 | 0.2 | 2 | 13 | 14 | 4 | s. | U. S. Weather Bureau. |
| Lake Mills | Jefferson | 897 | 19 | 43.4 | +11.4 | 82 | 29 | 14 | 3 | 43 | 0.14 | − 2.07 | 0.12 | 1.2 | 2 | 12 | 18 | 1 | sw. | S. Newton Dexter Smith |
| Lancaster | Grant | 1,070 | 20 | 46.4[a] | +15.5 | 82[a] | 23 | 14[a] | 8 | 45[a] | 0.00 | − 2.76 | 0.00 | 0.0 | 0 | 23[a] | 5[a] | 0[a] | s. | Edward Pollock. |
| Long Lake | Oneida | 1,592 | 2 | 36.0 | ..... | 80 | 29 | − 7 | 9 | 52 | 0.23 | ..... | 0.13 | 2.0 | 4 | 19 | 8 | 4 | w. | Louie Frank. |
| Madison | Dane | 974 | 32 | 44.6 | +14.5 | 82 | 29 | 18 | 8 | 43 | 0.14 | − 2.07 | 0.10 | 0.4 | 2 | 20 | 10 | 1 | sw. | U. S. Weather Bureau. |
| Mather | Juneau | 962 | 6 | 41.5 | ..... | 83 | 29 | 6 | 8 | 47 | T. | ..... | T. | 0.0 | 0 | 13 | 15 | 3 | w, | Frank Evans. |
| Mauston | ....do | 882 | 14 | 45.6 | +15.6 | 82 | 29 | 15 | 9† | 42 | 0.00 | − 2.01 | 0.00 | 3.0 | 25 | 4 | 2 | 2 | sw. | Eugene L. Hitchcock. |
| Meadow Valley | ....do | 974 | 19 | 43.2 | +15.0 | 83 | 29 | 12 | 10 | 49 | T. | − 1.44 | T. | T. | 0 | 11 | 19 | 1 | sw. | Charles H. Johnson. |
| Medford | Taylor | 1,420 | 19 | 41.1 | +15.2 | 78 | 29 | 10 | 13 | 42 | 0.10 | − 1.40 | 0.10 | 1.0 | 1 | 24 | 3 | 4 | w. | William Zeit. |
| Merrill | Lincoln | 1,267 | 4 | 42.1 | ..... | 86 | 27 | 2 | 2 | 51 | 0.22 | ..... | 0.17 | 4.5 | 3 | 26 | 2 | 3 | sw. | Frank M. McElroy. |
| Minocqua | Vilas | 1,604 | 6 | 37.6 | ..... | 78 | 29 | − 1 | 3 | 52 | 0.15 | ..... | 0.15 | 0.3 | 1 | 22 | 2 | 7 | w. | Benjamin W. Applebee. |
| Mondovi | Buffalo | 738 | 2 | 44.6 | ..... | 81 | 23 | 17 | 3† | 44 | 0.01 | ..... | 0.01 | T. | 1 | 24 | 7 | 0 | w. | Dr. Charles Hebard. |
| Mount Horeb | Dane | 1,226 | 6 | 45.2 | ..... | 82 | 29 | 15 | 9† | 45 | 0.10 | ..... | 0.10 | 0.0 | 1 | 24 | 7 | 0 | w. | W. M. Lewis. |
| Muscoda | Grant | 666 | 1 | 45.0 | ..... | 85 | 23 | 14 | 10 | 49 | 0.12 | ..... | 0.12 | T. | 1 | 22 | 6 | 3 | s. | Henry Eckstein. |
| Neillsville | Clark | 996 | 21 | 43.4 | +15.6 | 81 | 23† | 12 | 10 | 47 | T. | − 1.98 | T. | T. | 0 | 23 | 2 | 6 | nw. | William Heaslett. |
| New Richmond | St. Croix | 990 | 5 | 44.0 | ..... | 81 | 23† | 13 | 7 | 43 | 0.08 | ..... | 0.08 | T. | 1 | 17 | 13 | 1 | sw. | Franc A. R. Van Meter. |
| Osceola | Polk | 806 | 19 | 42.8 | +16.5 | 78 | 20† | 12 | 8 | 41 | 0.13 | − 1.84 | 0.13 | T. | 1 | 26 | 5 | 0 | w. | Charles W. Staples. |
| Portage | Columbia | 809 | 14 | 44.4 | +14.0 | 83 | 29 | 14 | 10 | 45 | 0.05 | − 1.77 | 0.05 | T. | 1 | 26 | 3 | 2 | sw. | James Clear. |
| Prairie du Chien | Crawford | 690 | 23 | 44.8 | +14.5 | 86 | 23 | 2 | 1 | 46 | 0.02 | − 1.93 | 0.02 | 0.0 | 1 | 19 | 10 | 2 | s. | Jas. A. Gillis. |
| Prentice | Price | 1,551 | 12 | 38.0 | +13.9 | 76 | 29† | 0 | 9 | 43 | 0.42 | − 0.85 | 0.38 | 3.8 | 2 | 13 | 11 | 7 | w. | Joseph G. Lash. |
| Rhinelander | Oneida | 1,550 | 4 | 40.0 | ..... | 79 | 29 | − 1 | 9 | 50 | 0.38 | ..... | 0.27 | 4.5 | 5 | 16 | 12 | 3 | sw. | John Lind. |
| Sauk City | Sauk | 758 | 2 | 45.4 | ..... | 84 | 29 | 11 | 10 | 47 | 0.10 | ..... | 0.10 | T. | 1 | 24 | 7 | 0 | w. | Kilien Derleth. |
| Shullsburg | Lafayette | 1,019 | 4 | 43.9 | ..... | 83 | 29 | 13 | 8 | 46 | 0.13 | ..... | 0.07 | 0.8 | 2 | 23 | 6 | 2 | sw. | Harrison B. Chamberlin. |
| Solon Springs | Douglas | 1,083 | 4 | 39.4 | ..... | 78 | 29 | 5 | 9 | 44 | 0.10 | ..... | 0.10 | 2.0 | 1 | 17 | 7 | 7 | sw. | John M. Sayles. |
| Spooner | Washburn | 1,104 | 15 | 41.2 | +13.9 | 79 | 23 | 11 | 9 | 40 | T. | − 2.05 | T. | T. | 0 | 28 | 2 | 1 | w. | Horace A. Bresee. |
| Stanley | Chippewa | 1,082 | 6 | 41.4 | ..... | 78 | 29 | 11 | 10 | 39 | 0.03 | ..... | 0.03 | 0.2 | 1 | 21 | 9 | 1 | nw. | W. Humphrey Scott. |
| Stevens Point | Portage | 1,113 | 17 | 42.2[d] | +13.9 | 82[b] | 29 | 10[d] | 3† | 44[d] | 0.06 | − 1.29 | 0.06 | 0.5 | 1 | 13 | 10 | 6 | s. | Garry E. Culver. |
| Valley Junction | Monroe | 930 | 18 | 42.6 | +13.4 | 83 | 29 | 2 | 1 | 50 | T. | − 1.92 | T. | T. | 0 | 16 | 14 | 1 | sw. | Frederick Muermann. |
| Viroqua | Vernon | 1,412 | 19 | 46.0 | +15.7 | 79 | 29† | 17 | 8 | 38 | T. | − 2.24 | T. | T. | 0 | 18 | 10 | 3 | sw. | Henry E. Rogers. |
| Vudesare | Vilas | 1,600 | 2 | 36.0 | ..... | 79 | 29 | − 3 | 9 | 45 | 0.62 | ..... | 0.50 | 1.0 | 2 | 15[a] | 14[a] | 1[a] | sw. | Louis L. Thomas. |
| Watertown | Jefferson | 824 | 19 | 43.2 | +12.2 | 82 | 29 | 16 | 10 | 39 | 0.24 | − 2.14 | 0.14 | 1.0 | 2 | 21 | 7 | 3 | sw. | Charles J. Salick. |
| Waukesha | Waukesha | 864 | 14 | 44.4 | +12.4 | 82 | 29 | 18 | 9† | 43 | 0.14 | − 2.09 | 0.08 | 0.5 | 2 | 11 | 20 | 0 | sw. | Carroll College. |
| Wausau | Marathon | 1,212 | 17 | 43.3 | +17.4 | 80 | 29† | 13 | 3† | 41 | 0.07 | − 1.63 | 0.04 | 3.0 | 2 | 20 | 9 | 2 | w. | George H. Halder. |
| Weyerhaeuser | Rusk | 1,297 | 3 | 40.4 | ..... | 78 | 29 | 7 | 10 | 41 | 0.18 | ..... | 0.07 | 1.7 | 4 | 16 | 12 | 3 | n | Miss Etta Stiles. |
| Whitehall | Trempealeau | 675 | 18 | 45.4 | +15.2 | 85 | 24 | 17 | 8 | 48 | 0.05 | − 1.53 | 0.05 | 0.5 | 1 | 23 | 7 | 1 | n . | Henry A. Towner. |
| *Iowa.* | | | | | | | | | | | | | | | | | | | | |
| Albia | Monroe | 959 | 12 | 50.5 | +12.9 | 86 | 23 | 20 | 10† | 42 | 0.35 | − 1.55 | 0.31 | 0.0 | 2 | 25 | 3 | 3 | sw. | J. I. Chenoweth. |
| Algona | Kossuth | 1,213 | 36 | 47.0 | +17.4 | 83 | 23 | 20 | 10 | 43 | 0.14 | − 1.42 | 0.06 | 0.0 | 3 | 27 | 2 | 2 | ..... | Dr. F. T. Seeley. |
| Alta | Buena Vista | 1,513 | 19 | 48.6 | +18.0 | 85 | 23 | 23 | 8† | 41 | 0.05 | − 1.61 | 0.04 | 0.0 | 2 | 20 | 10 | 1 | s. | David E. Hadden. |
| Amana | Iowa | 721 | 34 | 48.4 | +15.9 | 84 | 23 | 21 | 10 | 41 | 0.25 | − 1.75 | 0.18 | 0.0 | 2 | 23 | 7 | 1 | sw. | C. Schadt. |
| Ames | Story | 926 | 34 | 48.9 | +15.4 | 85 | 23 | 21 | 10 | 41 | 1.32 | − 0.09 | 1.32 | 0.0 | 1 | 25 | 5 | 1 | s. | Iowa State College. |
| Baxter | Jasper | 998 | 10 | 49.8 | +13.2 | 87 | 23 | 19 | 10 | 41 | 0.24 | − 1.97 | 0.21 | 0.0 | 3 | 24 | 5 | 2 | sw. | W. R. Vandike. |
| Belleplaine | Benton | 828 | 20 | 48.8 | +15.4 | 86 | 23 | 19 | 15 | 44 | 0.46 | − 2.05 | 0.33 | 0.0 | 3 | 23 | 8 | 0 | nw. | S. P. Van Dike. |
| Belmond | Wright | ..... | ..... | 46.2 | ..... | 84 | 23 | 21 | 10† | 44 | 0.23 | ..... | 0.09 | 0.0 | 4 | 10 | 21 | 0 | nw. | Geo. P. Hardwick. |
| Bloomfield | Davis | ..... | 3 | 52.8 | ..... | 90 | 23 | 21 | 10† | 49 | 0.45 | ..... | 0.43 | 0.0 | 2 | 25 | 3 | 3 | sw. | C. R. Davis. |
| Bonaparte | Van Buren | ..... | 19 | 51.2 | +13.2 | 87 | 23 | 20 | 15 | 43 | 0.67 | − 1.88 | 0.42 | 0.0 | 2 | ..... | ..... | ..... | ..... | B. R. Vale. |
| Boone | Boone | 1,134 | 5 | 49.6 | ..... | 85 | 23 | 20 | 1 | 37 | 0.32 | ..... | 0.28 | 0.0 | 2 | 26 | 3 | 2 | ..... | Carl Fritz Henning. |
| Britt | Hancock | 1,256 | 13 | 45.1 | +14.0 | 83 | 23 | 19 | 10 | 43 | 0.13 | − 1.37 | 0.11 | 0.0 | 2 | 26 | 4 | 1 | s. | L. M. Goodman. |
| Buckingham | Tama | ..... | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | − 2.22 | T. | 0.0 | 0 | 20 | 11 | 0 | ..... | W. A. Daniel. |
| Burlington | Des Moines | 544 | 14 | 51.2 | +11.4 | 88 | 23 | 21 | 15 | 45 | 0.91 | − 1.95 | 0.41 | 0.0 | 3 | 25 | 2 | 4 | s. | Max E. Poppe, jr. |
| Carroll | Carroll | 1,265 | 20 | 49.0 | +16.3 | 85 | 22 | 21 | 9 | 39 | 0.04 | − 2.00 | 0.04 | 0.0 | 1 | 22 | 5 | 4 | nw. | Mrs. Jos. J. Wolfe. |
| Cedar Rapids | Linn | 733 | 28 | 47.0 | +13.4 | 87 | 23 | 14 | 1 | 42 | T. | − 2.04 | T. | 0.0 | 0 | 20 | 5 | 6 | w. | W. J. Greene. |
| Charles City | Floyd | 1,015 | 19 | 44.4 | +16.0 | 83 | 23 | 18 | 8 | 40 | 0.18 | − 1.74 | 0.12 | 0.0 | 4 | 9 | 13 | 9 | nw. | U. S. Weather Bureau. |
| Clear Lake | Cerro Gordo | 1,241 | 12 | 45.1 | +13.4 | 80 | 23† | 20 | 8† | 40 | 0.10 | − 1.49 | 0.10 | 0.0 | 1 | ..... | ..... | ..... | nw. | Oscar Stevens |
| Clinton | Clinton | 593 | 43 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.35 | − 2.67 | 0.17 | 0.0 | 3 | ..... | ..... | ..... | ..... | Luke Roberts. |
| Columbus Junction | Louisa | 595 | 9 | 50.6 | ..... | 85 | 23 | 22 | 15 | 40 | 0.30 | ..... | 0.20 | 0.0 | 2 | 26 | 5 | 0 | n. | J. B. Johnston. |
| Davenport | Scott | 580 | 39 | 49.9 | +14.5 | 84 | 23 | 24 | 15 | 42 | 0.39 | − 1.82 | 0.17 | 0.0 | 4 | 26 | 5 | 0 | nw. | U. S. Weather Bureau. |
| Decorah | Winneshiek | 875 | 17 | 44.4 | +12.8 | 83 | 23 | 15 | 8† | 45 | 0.05 | − 2.00 | 0.05 | 0.0 | 1 | ..... | ..... | ..... | ..... | F. H. Baker. |
| Delaware | Delaware | 1,083 | 19 | 45.6 | +14.0 | 81 | 23† | 17 | 8 | 43 | 0.21 | − 1.62 | 0.13 | 0.0 | 3 | 22 | 9 | 0 | sw. | William Ball. |
| Des Moines | Polk | 861 | 32 | 51.4 | +15.7 | 86 | 23 | 24 | 15 | 35 | 0.33 | − 1.32 | 0.33 | 0.0 | 2 | 17 | 10 | 4 | sw. | U. S. Weather Bureau. |
| De Soto | Dallas | 866 | 10 | 52.0 | +14.4 | 90 | 23 | 18 | 15 | 49 | T. | − 1.59 | T. | 0.0 | 0 | 27 | 0 | 4 | sw. | R. D. Minard. |
| Dubuque | Dubuque | 639 | 37 | 47.8 | +14.6 | 84 | 23 | 20 | 10 | 41 | 0.14 | − 2.07 | 0.08 | T. | 4 | 23 | 7 | 1 | s. | U. S. Weather Buerau. |
| Earlham | Madison | ..... | 8 | 54.2[i] | ..... | 85[i] | 23 | 26[i] | 1 | 47[i] | T. | ..... | T. | 0.0 | 0 | ..... | ..... | ..... | ..... | George Phillips. |
| Elkader | Clayton | 727 | 31 | 45.8 | +14.0 | 86 | 23 | 15 | 8† | 61 | 0.02 | − 1.89 | 0.02 | 0.0 | 1 | 28 | 1 | 2 | ne. | Chas. Reinecke. |
| Elma | Howard | ..... | 1 | 43.7[b] | ..... | 81[b] | 23 | 14 | 8† | 45[b] | 0.02 | ..... | 0.02 | T. | 1 | 21 | 7 | 3 | se. | H. A. Moore. |
| Estherville | Emmet | 1,296 | 15 | 44.7 | +15.7 | 85 | 23 | 12 | 1 | 51 | 0.07 | − 1.37 | 0.07 | 0.0 | 1 | 30 | 0 | 1 | s. | A. O. Peterson. |

TABLE 1—*Climatological data for March, 1910. District No. 5*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Iowa*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Fairfield | Jefferson | | 26 | 50.8[a] | +17.0 | 86[a] | 23 | 20[a] | 15 | 45[a] | 0.53 | − 2.04 | 0.28 | 0.0 | 2 | 26 | 3 | 2 | s. | R. Monroe McKenzie. |
| Fayette‡ | Fayette | 1,003 | 20 | 45.0 | +13.8 | 84 | 23 | 13 | 10 | 47 | 0.10 | − 2.16 | 0.05 | 0.0 | 2 | 25 | 6 | 0 | nw. | R. Z. Latimer. |
| Forest City‡ | Winnebago | 1,226 | 16 | 46.0 | +16.3 | 84 | 23 | 20 | 1 | 40 | 0.24 | − 1.32 | 0.12 | 0.0 | 3 | 25 | 5 | 1 | w. | J. A. Peters. |
| Fort Dodge | Webster | 1,126 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. F. Monk. |
| Fort Madison | Lee | 516 | 61 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.75 | − 2.01 | 0.40 | 0.0 | 2 | 19 | 9 | 3 | s. | Miss L. A. McCready. |
| Gilman | Marshall | 1,052 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. L. Wylie. |
| Grand Meadow | Clayton | 1,180 | 19 | 44.6 | +13.3 | 83 | 23 | 15 | 8 | 44 | 0.01 | − 2.13 | 0.01 | T. | 1 | 14 | 15 | 2 | sw. | F. L. Williams. |
| Greene | Butler | ..... | 12 | 46.0 | +13.4 | 84 | 23 | 19 | 8 | 46 | 0.22 | − 1.47 | 0.12 | 0.0 | 2 | 17 | 7 | 7 | s. | J. L. Cole. |
| Grinnell | Poweshiek | 1,023 | 18 | 53.0 | +19.9 | 90 | 23 | 26 | 10† | 40 | 0.80 | − 0.94 | 0.74 | 0.0 | 3 | 22 | 5 | 4 | w. | D. W. Brainard |
| Grundy Center‡ | Grundy | 976 | 19 | 47.6 | +15.0 | 84 | 21 | 22 | 10† | 45 | 0.02 | − 1.80 | 0.02 | 0.0 | 1 | ..... | ..... | ..... | s. | J. B. Calderwood. |
| Guthrie Center‡ | Guthrie | 1,077 | 15 | 50.4 | +15.0 | 85 | 23 | 20 | 10† | 46 | 0.01 | − 1.39 | 0.01 | 0.0 | 1 | 24 | 5 | 2 | sw. | D. G. Beardsley. |
| Hampton | Franklin | 1,155 | 20 | 47.4 | +17.1 | 85 | 23 | 21 | 10 | 41 | 0.36 | − 1.89 | 0.20 | 0.0 | 4 | 15 | 13 | 3 | nw. | E. C. Grenelle. |
| Humboldt | Humboldt | 1,095 | 22 | 48.6 | +16.8 | 85 | 23 | 22 | 8 | 48 | 0.08 | − 1.52 | 0.08 | 0.0 | 1 | 30 | 0 | 1 | nw. | Henry S. Wells. |
| Independence‡ | Buchanan | 921 | 46 | 46.6 | +15.8 | 84 | 23 | 19 | 8 | 44 | 0.00 | − 1.63 | 0.00 | 0.0 | 0 | 26 | 2 | 3 | nw. | George Donohoe. |
| Indianola | Warren | 969 | 19 | 52.0 | +15.9 | 86 | 23 | 24 | 10† | 37 | 0.32 | − 1.00 | 0.31 | 0.0 | 2 | 15 | 9 | 7 | sw. | John L. Tilton. |
| Iowa City | Johnson | 683 | 50 | 47.0 | +13.0 | 87 | 23 | 16 | 1 | 48 | 0.28 | − 2.16 | 0.18 | 0.0 | 2 | 25 | 3 | 3 | nw. | A. G. Smith. |
| Iowa Falls | Hardin | 1,170 | 17 | 44.8 | +12.9 | 84 | 23 | 14 | 1 | 45 | T. | − 1.73 | T. | 0.0 | 0 | 26 | 3 | 2 | sw. | J. B. Parmelee. |
| Jefferson‡ | Greene | ..... | 11 | 50.1 | ..... | 85 | 23 | 22 | 10 | 45 | T. | ..... | T. | 0.0 | 0 | 27 | 3 | 1 | s. | G. W. Jackson. |
| Keokuk | Lee | 547 | 39 | 53.6 | +15.7 | 86 | 23 | 24 | 15 | 38 | 0.53 | − 1.84 | 0.36 | 0.0 | 3 | 25 | 6 | 0 | sw. | U. S. Weather Bureau. |
| Keosauqua | Van Buren | 644 | 18 | 48.6 | +10.4 | 86 | 23 | 13 | 15† | 51 | 1.23 | − 1.31 | 0.45 | 0.0 | 3 | 12 | 16 | 3 | ..... | J. H. Landes. |
| Knoxville‡ | Marion | 920 | 15 | 51.8 | +14.4 | 85 | 23 | 23 | 10† | 37 | 0.50 | − 1.07 | 0.45 | 0.0 | 2 | 21 | 5 | 5 | nw. | Casey & Belville. |
| Lacona | Warren | ..... | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.60 | ..... | 0.30 | 0.0 | 3 | 13 | 14 | 4 | ..... | J. B. Alter. |
| Le Claire | Scott | 576 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.37 | − 2.27 | 0.15 | 0.0 | 5 | ..... | ..... | ..... | ..... | Miss M. T. Disney. |
| Marshalltown | Marshall | 947 | 18 | 48.0 | +14.6 | 88 | 23 | 19 | 1 | 45 | 0.34 | − 2.34 | 0.20 | 0.0 | 3 | 24 | 5 | 2 | nw. | Ralph B. Reasoner. |
| Mason City‡ | Cerro Gordo | 1,132 | 13 | 44.6 | +13.0 | 82 | 23 | 19 | 10 | 44 | 0.26 | − 1.42 | 0.18 | 0.0 | 2 | 20 | 10 | 1 | s. | J. S. Mills. |
| Mount Pleasant‡ | Henry | 729 | 29 | 51.0 | +14.3 | 87 | 26 | 22 | 15 | 46 | 0.73 | − 1.70 | 0.53 | 0.0 | 2 | 25 | 6 | 0 | sw. | J. W. Edwards. |
| Muscatine | Muscatine | ..... | 50 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.36 | − 2.43 | 0.26 | 0.0 | 3 | ..... | ..... | ..... | ..... | William Molis |
| New Hampton‡ | Chickasaw | 1,169 | 13 | 44.2 | +12.5 | 81 | 23 | 16 | 8 | 42 | 0.15 | − 1.86 | 0.15 | 0.0 | 1 | 26 | 5 | 0 | sw. | A. F. Kemman. |
| Newton‡ | Jasper | 944 | 22 | 50.2 | +15.1 | 85 | 23 | 23 | 10† | 36 | 0.27 | − 1.33 | 0.27 | 0.0 | 1 | 25 | 4 | 2 | s. | J. P. Beatty. |
| Northwood‡ | Worth | 1,222 | 14 | 43.8 | +12.7 | 80 | 23 | 19 | 10 | 41 | 0.08 | − 1.78 | 0.04 | 0.0 | 4 | 25 | 6 | 0 | sw. | Chas. H. Dwelle. |
| Olin‡ | Jones | 760 | 12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C. M. Miles. |
| Osage | Mitchell | 1,184 | 23 | 46.4 | +17.3 | 84 | 23 | 19 | 8 | 42 | T. | − 1.76 | T. | 0.0 | 0 | 20 | 10 | 1 | nw. | A. D. Bundy. |
| Oskaloosa‡ | Mahaska | 843 | 34 | 50.8 | +15.6 | 87 | 23 | 20 | 15 | 42 | 0.28 | − 1.58 | 0.25 | 0.0 | 2 | 27 | 1 | 3 | sw. | Joseph Boyd. |
| Ottumwa | Wapello | 649 | 15 | 53.8 | +15.1 | 90 | 23 | 20 | 15 | 42 | 0.87 | − 1.27 | 0.77 | 0.0 | 3 | 14 | 6 | 11 | s. | W. J. Mesmer. |
| Pella | Marion | 877 | 8 | 50.0 | +17.0 | 87 | 23 | 17 | 15 | 47 | 0.20 | − 0.83 | 0.18 | 0.0 | 2 | 27 | 3 | 1 | nw. | John H. Ver Steeg. |
| Perry‡ | Dallas | 975 | 9 | 49.6 | +12.7 | 85 | 23† | 22 | 10† | 45 | T. | − 2.14 | T. | 0.0 | 0 | 18 | 11 | 2 | ..... | J. A. Harvey. |
| Plover | Pocahontas | 1,426 | 14 | 46.6 | +14.5 | 82 | 23† | 20 | 15 | 49 | 0.04 | − 1.17 | 0.04 | 0.0 | 1 | 28 | 3 | 0 | nw. | J. S. Smith. |
| Pocahontas‡ | ....do | 1,248 | 6 | 46.8 | ..... | 83 | 23 | 21 | 15 | 45 | 0.03 | ..... | 0.02 | 0.0 | 2 | 24 | 4 | 3 | s. | F. E. Hronek. |
| Ridgeway‡ | Winneshiek | 1,215 | 12 | 46.5 | +13.4 | 84 | 23 | 17 | 8 | 44 | 0.18 | − 3.03 | 0.10 | 0.0 | 4 | 27 | 4 | 0 | s. | Arthur Betts. |
| Rockwell City‡ | Calhoun | ..... | 14 | 48.2 | +14.6 | 84 | 23† | 20 | 11 | 41 | T. | − 2.08 | T. | 0.0 | 0 | 29 | 2 | 0 | ..... | C. M. Randall. |
| Sac City | Sac | 1,278 | 34 | 49.0[b] | +17.7 | 84 | 23 | 24 | 10† | 42 | T. | − 1.52 | T. | 0.0 | 0 | ..... | ..... | ..... | sw. | E. N. Baily. |
| St. Charles‡ | Madison | 1,070 | 9 | 53.1 | +14.9 | 87 | 26 | 23 | 10 | 39 | 0.03 | − 1.91 | 0.03 | 0.0 | 1 | 27 | 2 | 2 | sw. | R. D. Minard. |
| Sigourney‡ | Keokuk | 877 | 14 | 49.8[a] | +12.9 | 84[a] | 23 | 20[a] | 15 | 47[a] | 0.50 | − 1.56 | 0.35 | T. | 3 | ..... | ..... | ..... | nw. | J. T. Parker. |
| Stockport‡ | Van Buren | ..... | 8 | 49.8 | ..... | 88 | 23 | 15 | 15 | 46 | 1.06 | − 1.27 | 0.72 | 0.0 | 3 | 25 | 2 | 4 | s. | C. L. Beswick. |
| Storm Lake | Buena Vista | 1,440 | 21 | 48.9[b] | +18.7 | 81[b] | 23† | 23[b] | 10† | 41[b] | 0.05 | − 1.27 | 0.05 | 0.0 | 1 | 27 | 3 | 1 | s. | S. B. Fracker. |
| Stuart | Guthrie | 1,216 | 11 | 51.0 | +16.1 | 85 | 23† | 21 | 10 | 41 | T. | − 2.25 | T. | 0.0 | 0 | 23 | 4 | 4 | se. | J. P. Fox. |
| Tiptop ‡ | Cedar | 807 | 11 | 49.8 | +13.2 | 85 | 23 | 24 | 15 | 42 | 0.17 | − 2.70 | 0.11 | 0.0 | 2 | 29 | 2 | 0 | sw. | F. K. Gregg. |
| Toledo‡ | Tama | 856 | 16 | 48.2 | +13.5 | 84 | 23 | 19 | 10† | 44 | 0.20 | − 1.71 | 0.20 | 0.0 | 1 | 24 | 2 | 5 | nw. | I. F. Giger. |
| Wapello‡ | Louisa | 588 | 12 | 51.0 | +13.6 | 85 | 23 | 23 | 14 | 42 | 0.44 | − 1.98 | 0.33 | 0.0 | 2 | 24 | 7 | 0 | nw. | G. W. Schofield. |
| Washington | Washington | 769 | 28 | 50.8 | +16.6 | 88 | 23 | 19 | 15 | 46 | 0.62 | − 1.64 | 0.43 | 0.0 | 2 | 23 | 6 | 2 | sw. | Wm. A. Cook. |
| Waterloo | Black Hawk | 862 | 27 | 46.8 | +15.0 | 86 | 23 | 12 | 1 | 41 | 0.09 | − 1.66 | 0.06 | 0.0 | 2 | 23 | 8 | 0 | w. | M. L. Newton. |
| Waukee | Dallas | 1,039 | 7 | 50.5 | ..... | 86 | 23 | 21 | 10 | 39 | 0.37 | − 1.58 | 0.35 | 0.0 | 2 | 19 | 9 | 3 | sw. | Samuel F. Foft. |
| Waverly‡ | Bremer | 948 | 14 | 45.6 | +12.8 | 84 | 23 | 19 | 8 | 42 | 0.14 | − 1.81 | 0.11 | 0.0 | 2 | 14 | 15 | 2 | s. | H. S. Hoover. |
| Webster City‡ | Hamilton | ..... | 5 | 47.4 | ..... | 85 | 23 | 19 | 10† | 46 | T. | ..... | T. | 0.0 | 0 | 23 | 7 | 1 | nw. | C. D. Carpenter. |
| West Bend‡ | Palo Alto | 1,197 | 17 | 46.3[a] | +15.3 | 82 | 23 | 20[a] | 8 | 44[a] | 0.14 | − 1.46 | 0.08 | 0.0 | 2 | 19 | 8 | 4 | ..... | Joseph Dorweiler. |
| Whitten‡ | Hardin | 1,036 | 13 | 47.1 | +13.8 | 84 | 22 | 20 | 10† | 40 | T. | − 1.38 | T. | 0.0 | 0 | 20 | 8 | 3 | nw. | F. P. Butler. |
| Winterset‡ | Madison | 1,129 | 19 | 50.9 | +15.2 | 82 | 26 | 19 | 10† | 45 | T. | − 1.93 | T. | 0.0 | 0 | 23 | 3 | 5 | s. | Robert S. Cooper. |
| Zearing | Story | ..... | 6 | 48.0 | ..... | 86 | 23 | 20 | 10 | 48 | 0.00 | ..... | 0.00 | 0.0 | 0 | 6 | 23 | 2 | nw. | Orley Reese. |
| *Missouri.* | | | | | | | | | | | | | | | | | | | | |
| Gorin | Scotland | 700 | 24 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.49 | − 2.16 | 0.29 | 0.0 | 2 | 21 | 8 | 2 | sw. | J. W. Pulliam. |
| Hannibal | Marion | 534 | 18 | 53.9 | +12.3 | 88 | 23 | 21 | 15 | 39 | 0.15 | − 2.61 | 0.14 | 0.0 | 3 | 21 | 8 | 2 | sw. | U. S. Weather Bureau. |
| Louisiana | Pike | 500 | 32 | 53.9 | +11.3 | 88 | 23 | 18 | 15 | 47 | 0.20 | − 2.39 | 0.20 | 0.0 | 1 | 25 | 5 | 1 | sw. | J. T. Farrell. |
| Mexico | Audrain | 797 | 32 | 53.7 | +12.0 | 90 | 22 | 20 | 15† | 56 | 0.45 | − 2.20 | 0.20 | 0.3 | 4 | 17 | 5 | 9 | s. | J. F. Llewellyn. |
| Steffenville | Lewis | 576 | 17 | 54.0 | +12.4 | 89 | 23 | 21 | 15 | 41 | 0.50 | − 2.50 | 0.50 | 0.0 | 1 | 23 | 6 | 2 | se. | Lewis Spriggs. |
| Sublett | Adair | 1,000 | 30 | 52.6 | +13.7 | 85 | 23 | 19 | 15 | 45 | 0.10 | − 2.78 | 0.10 | 0.0 | 1 | 22 | 8 | 1 | se. | Frank Hall. |
| Warrenton | Warren | 865 | 20 | 54.8 | +13.3 | 88 | 22† | 22 | 15 | 53 | 0.30 | − 3.62 | 0.18 | 0.0 | 3 | 16 | 6 | 9 | s. | Dr. J. H. Frick. |
| *Indiana.* | | | | | | | | | | | | | | | | | | | | |
| Collegeville | Jasper | ..... | 11 | 49.0 | + 7.9 | 87 | 24 | 20 | 8 | 50 | 0.98 | − 2.33 | 0.45 | T. | 4 | 10 | 13 | 8 | ne. | Prof. L. C. Klosterman. |
| Knox‡ | Starke | 716 | 5 | 48.2 | ..... | 85 | 24 | 15 | 15 | 40 | 0.51 | ..... | 0.26 | T. | 6 | 17 | 11 | 3 | sw. | W. R. R. Tatman. |
| Laporte | Laporte | 810 | 14 | 46.0[c] | + 8.2 | 83[c] | 24† | 14[b] | 15 | 40[c] | 0.49 | − 2.64 | 0.24 | T. | 3 | 22 | 9 | 0 | w. | J. E. Hallinen. |
| Plymouth | Marshall | 790 | 7 | 47.8 | ..... | 83 | 24 | 16 | 15 | 39 | 0.33 | ..... | 0.21 | 0.2 | 4 | 19 | 11 | 1 | w. | J. W. Siders. |
| *Illinois.* | | | | | | | | | | | | | | | | | | | | |
| Aledo | Mercer | 738 | 10 | 50.0 | + 9.8 | 85 | 23 | 19 | 15 | 44 | 0.70 | − 1.44 | 0.50 | 0.0 | 2 | 20 | 11 | 0 | nw. | Wm. B. Frew. |
| Alexander | Morgan | 670 | 17 | 52.6 | +10.9 | 88 | 23 | 17 | 15 | 45 | 0.04 | − 2.46 | 0.04 | 0.0 | 1 | 19 | 9 | 3 | sw. | George H. Hall. |
| Antioch | Lake | 861 | 9 | 45.0 | ..... | 82 | 29 | 18 | 15 | 43 | 0.05 | ..... | 0.05 | T. | 1 | 25 | 4 | 2 | w. | J. C. James, jr. |
| Astoria | Fulton | 650 | 11 | 50.7 | + 9.6 | 88 | 23 | 17 | 15 | 46 | 0.40 | − 2.17 | 0.35 | 0.0 | 2 | 20 | 9 | 2 | s. | Ed. V. Bohl. |
| Aurora | Kane | 687 | 31 | 46.7 | +11.7 | 82 | 27† | 16 | 15 | 45 | 0.36 | − 2.29 | 0.22 | 0.0 | 3 | 16 | 13 | 2 | se. | W. Holden. |
| Bement | Piatt | 700 | 3 | 52.2 | ..... | 86 | 23† | 18 | 15 | 45 | 0.41 | ..... | 0.26 | 0.0 | 3 | 25 | 2 | 4 | sw. | Rev. C. S. Adams. |
| Benton | Franklin | 598 | 8 | 58.6[b] | ..... | 90[b] | 23† | 22[b] | 15 | 36[b] | T. | ..... | T. | 0.0 | 0 | 14 | 8 | 9 | s. | F. H. Stamper. |
| Bloomington | McLean | 840 | 19 | 51.6 | +11.6 | 87 | 23 | 18 | 15 | 47 | 0.61 | − 2.50 | 0.40 | 0.0 | 3 | 24 | 3 | 4 | s. | Prof. H. N. Pearce |
| Cairo | Alexander | 359 | 33 | 58.8 | +11.8 | 87 | 24 | 28 | 15 | 31 | 1.39 | − 2.63 | 1.23 | 0.0 | 5 | 16 | 7 | 8 | s. | U. S. Weather Bureau. |
| Carbondale | Jackson | 412 | .... | 59.6 | ..... | 93 | 23 | 25 | 11 | 41 | 0.09 | ..... | 0.09 | 0.0 | 1 | 19 | 9 | 3 | sw. | State Normal University. |
| Carlinville | Macoupin | 663 | 20 | 54.6 | +11.6 | 88 | 23† | 18 | 15 | 43 | 0.15 | − 2.87 | 0.08 | 0.0 | 2 | 23 | 7 | 1 | se. | R. O. Purviance. |
| Chester | Randolph | 380 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.04 | ..... | 0.04 | 0.0 | 1 | 19 | 8 | 4 | s. | F. A. Gollon, jr. |
| Clinton | Dewitt | 727 | .... | 51.4 | ..... | 86 | 23 | 18 | 15 | 46 | 0.29 | ..... | 0.19 | 0.0 | 3 | 18 | 11 | 2 | sw. | J. F. Ziegler. |
| Coatsburg | Adams | 763 | 18 | 53.3 | +13.0 | 86 | 23 | 21 | 15 | 40 | 0.15 | − 2.69 | 0.15 | T. | 1 | 26 | 2 | 3 | s. | Dr. J. R. Lambert. |
| Cobden | Union | 656 | 27 | 59.2 | +12.5 | 91 | 23 | 21 | 15 | 36 | 0.10 | − 4.70 | 0.10 | 0.0 | 1 | 15 | 10 | 6 | s. | John Buck. |
| Dakota | Stephenson | 929 | 5 | 45.6 | ..... | 83 | 29 | 11 | 8 | 46 | 0.41 | ..... | 0.25 | T. | 3 | 21 | 10 | 0 | s. | Rev. G. W. Kerstetter. |
| Decatur | Macon | 685 | 19 | 51.0 | + 9.7 | 87 | 23 | 17 | 15 | 45 | 0.58 | − 2.64 | 0.35 | 0.0 | 3 | 23 | 7 | 1 | nw. | Prof. J. H. Coonradt. |
| Dixon | Lee | 725 | 20 | 47.4 | +12.0 | 85 | 23 | 19 | 10 | 51 | 0.20 | − 2.27 | 0.20 | 0.0 | 1 | 28 | 3 | 0 | ..... | H. V. Bardwell. |
| Du Quoin | Perry | 459 | 22 | 58.4 | +11.1 | 92 | 23 | 20 | 15 | 40 | 0.08 | − 4.10 | 0.05 | 0.0 | 2 | 23 | 6 | 2 | sw. | G. H. Knetzger. |
| Dwight | Livingston | 600 | 17 | 49.2 | +12.0 | 85 | 23 | 17 | 15 | 53 | 0.52 | − 2.17 | 0.28 | 0.0 | 4 | 15 | 9 | 7 | nw. | Ed. O. Welch. |
| Galva | Henry | 842 | 18 | 49.0 | +11.8 | 86 | 23 | 19 | 1 | 46 | 0.33 | − 2.14 | 0.20 | 0.0 | 2 | 26 | 2 | 3 | s. | Prof. F. U. White. |
| Greenville | Bond | 635 | 32 | 54.6 | +12.2 | 87 | 24 | 22 | 15 | 36 | 0.07 | − 3.59 | 0.04 | 0.0 | 2 | 16 | 7 | 8 | sw. | M. S. Oudyn. |
| Griggsville | Pike | 650 | 25 | 56.4 | +14.9 | 91 | 28 | 23 | 15 | 45 | T. | − 2.67 | T. | 0.0 | 0 | 22 | 6 | 3 | sw. | Geo. F. Kneeland. |
| Halfway | Williamson | 569 | 14 | 58.2 | +10.8 | 88 | 24 | 22 | 15 | 33 | 0.04 | − 3.88 | 0.04 | 0.0 | 1 | 20 | 6 | 5 | s. | E. L. Hearn. |
| Havana | Mason | 475 | 18 | 52.7 | +10.3 | 88 | 23 | 21 | 15 | 44 | 0.26 | − 2.69 | 0.26 | 0.0 | 1 | 17 | 14 | 0 | s. | F. & C. Borgelt. |

TABLE 1.—*Climatological data for March, 1910. District No. 5*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Illinois*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Henry | Marshall | 500 | 22 | 50.1 | +12.5 | 84 | 23 | 19 | 15 | 48 | 0.12 | − 2.35 | 0.06 | 0.0 | 2 | 24 | 5 | 2 | sw. | Dr. F. A. Powell. |
| Hillsboro | Montgomery | 675 | 16 | 55.2 | +11.7 | 87 | 23 | 19 | 15 | 39 | T. | − 3.33 | T. | 0.0 | 0 | 19 | 5 | 7 | nw. | Ira L. Woodward. |
| Joliet | Will | 541 | 19 | 47.6 | +10.1 | 83 | 27† | 19 | 15 | 47 | 0.24 | − 2.60 | 0.23 | 0.0 | 2 | 23 | 6 | 2 | sw. | F. M. Muhlig. |
| Kishwaukee | Winnebago | 730 | 22 | 46.2 | +11.8 | 84 | 29 | 18 | 8 | 45 | 0.27 | − 2.35 | 0.17 | 0.0 | 3 | 26 | 4 | 1 | sw. | Geo. Stevens. |
| La Grange | Cook | 657 | 18 | 46.4 | +10.4 | 82 | 27 | 19 | 15 | 43 | 0.05 | − 2.52 | 0.05 | T. | 1 | 23 | 5 | 3 | sw. | Prof. F. E. Sanford. |
| La Harpe | Hancock | 698 | 31 | 50.6 | +12.0 | 88 | 23 | 20 | 15 | 44 | 0.34 | − 2.63 | 0.34 | 0.0 | 1 | 27 | 3 | 1 | sw. | Jno. S. Campbell. |
| Lanark | Carroll | 883 | 21 | 45.2 | +11.3 | 83 | 23† | 12 | 8 | 48 | 0.28 | − 1.95 | 0.12 | T. | 4 | 27 | 4 | 0 | sw. | M. N. Wertz. |
| La Salle | La Salle | 536 | 33 | 49.3 | +12.5 | 84 | 23 | 24 | 15 | 47 | 0.19 | − 2.63 | 0.12 | 0.0 | 4 | 21 | 8 | 2 | sw. | U. S. Weather Bureau. |
| Lincoln | Logan | 482 | 22 | 50.9 | +11.3 | 81 | 24† | 22 | 15 | 34 | 0.47 | − 2.39 | 0.25 | 0.0 | 3 | 21 | 8 | 2 | nw. | Prof. C. S. Oglevee. |
| Martinton | Iroquois | 633 | 23 | 48.4 | +11.3 | 86 | 24† | 17 | 15 | 43 | 0.45 | − 2.19 | 0.38 | 0.0 | 3 | 16 | 9 | 6 | sw. | Jos. H. Peltier. |
| Mascoutah | St. Clair | 425 | 20 | 57.0 | +13.0 | 93 | 23 | 20 | 15 | 45 | 0.02 | − 3.93 | 0.02 | 0.0 | 1 | 21 | 8 | 2 | se. | Geo. Henrich. |
| Minonk | Woodford | 745 | 17 | 50.4 | +12.1 | 88 | 23 | 18 | 15 | 51 | 0.03 | − 2.47 | 0.03 | 0.0 | 1 | 17 | 14 | 0 | sw. | O. M. Davison. |
| Monmouth | Warren | 784 | 18 | 51.4 | +12.5 | 88 | 23 | 20 | 15 | 45 | 0.73 | − 1.59 | 0.46 | T. | 3 | 22 | 9 | 0 | sw. | Hugh R. Moffet. |
| Morrison | Whiteside | 6[a]3 | 16 | 47.4 | +11.6 | 83 | 23 | 17 | 15 | 45 | 0.44 | − 2.47 | 0.16 | 0.0 | 5 | 25 | 4 | 2 | sw. | S. A. Maxwell. |
| Morrisonville | Christian | 638 | 11 | 52.4 | + 8.9 | 23† | 18 | 15 | 42 | 15 | 0.04 | − 2.71 | 0.04 | 0.0 | 1 | 23 | 6 | 2 | sw. | J. D. Lowis. |
| Mount Vernon | Jefferson | 511 | 16 | 55.8 | +10.2 | 90 | 23† | 19 | 15 | 47 | 0.02 | − 4.91 | 0.02 | 0.0 | 1 | 14 | 11 | 6 | s. | Theo. P. Stelle. |
| Oregon | Ogle | 702 | 1 | 47.6 | ..... | 85 | 29 | 13 | 10 | 47 | T. | ..... | T. | 0.0 | 0 | 19 | 6 | 6 | s. | Samuel Ray. |
| Ottawa | La Salle | 500 | 24 | 49.5 | +12.0 | 85 | 23 | 22 | 15 | 50 | 0.42 | − 2.38 | 0.34 | 0.0 | 3 | 13 | 6 | 12 | sw. | Miss M. M. Harris. |
| Pana | Christian | 692 | 24 | 54.3 | +13.0 | 87 | 24 | 18 | 15 | 39 | 0.40 | − 2.87 | 0.15 | 0.0 | 4 | 26 | 2 | 3 | nw. | C. W. Sibley. |
| Peoria | Peoria | 609 | 33 | 49.8 | +12.8 | 85 | 23 | 18 | 15 | 41 | 0.52 | − 2.44 | 0.38 | 0.0 | 4 | 23 | 7 | 1 | s. | U. S. Weather Bureau. |
| Pontiac | Livingston | 546 | 8 | 51.0 | ..... | 88 | 23 | 20 | 15 | 50 | 0.20 | ..... | 0.09 | 0.0 | 3 | 20 | 9 | 2 | sw. | Geo. Butterworth. |
| Riley | McHenry | 956 | 51 | 45.8 | +14.2 | 80 | 29 | 17 | 8 | 41 | 0.24 | − 2.21 | 0.18 | T. | 3 | 18 | 11 | 2 | sw. | John West James. |
| Rockford | Winnebago | 763 | 18 | 45.4 | +11.4 | 82 | 29 | 15 | 1 | 39 | 0.27 | − 2.25 | 0.17 | 0.0 | 3 | 26 | 2 | 3 | ..... | Hosmer C. Porter. |
| Rushville | Schuyler | 670 | 19 | 53.4 | +12.8 | 88 | 23 | 22 | 15 | 41 | 0.12 | − 2.20 | 0.12 | 0.0 | 1 | 21 | 7 | 3 | s. | H. F. Dyson. |
| St. Charles | Kane | 700 | 15 | 46.6 | +10.0 | 82 | 27 | 18 | 15 | 44 | 0.35 | − 2.94 | 0.25 | T. | 2 | 14 | 14 | 3 | sw. | Dr. Wm. H. Bishop. |
| St. Peter | Fayette | 500 | 8 | 55.2 | ..... | 88 | 23 | 18 | 15 | 40 | 0.15 | ..... | 0.10 | 0.0 | 2 | 22 | 6 | 3 | sw. | M. L. Lansford. |
| Springfield | Sangamon | 644 | 33 | 52.8 | +13.7 | 86 | 23 | 24 | 15 | 41 | 0.18 | − 2.89 | 0.08 | 0.0 | 3 | 16 | 11 | 4 | s. | U. S. Weather Bureau. |
| Streator | La Salle | 626 | 17 | 48.8 | + 9.7 | 87 | 23 | 19 | 15 | 53 | 0.41 | − 2.59 | 0.18 | 0.0 | 3 | 24 | 3 | 4 | sw. | Edw. F. Sweetser. |
| Sullivan | Moultrie | 539 | 10 | 53.0 | + 9.3 | 88 | 23† | 16 | 15 | 43 | 0.34 | − 2.79 | 0.20 | 0.0 | 3 | 22 | 7 | 2 | nw. | C. A. Corbin. |
| Sycamore | De Kalb | 855 | 30 | 45.8 | +11.9 | 84 | 23† | 13 | 1 | 49 | 0.23 | − 2.24 | 0.23 | 0.0 | 1 | 21 | 1 | 9 | se. | Miss E. J. Davis. |
| Tilden | Randolph | 500 | 24 | 57.0 | +11.8 | 90 | 23 | 20 | 15 | 40 | 0.03 | − 3.97 | 0.03 | 0.0 | 1 | 28 | 3 | 0 | s. | Jas. A. Caldwell. |
| Tiskilwa | Bureau | 798 | 16 | 49.7 | +12.8 | 84 | 23 | 19 | 15 | 45 | 0.31 | − 2.57 | 0.13 | 0.0 | 4 | 28 | 3 | 0 | s. | F. L. Smucker. |
| Walnut | do | 717 | 19 | 50.0[a] | +11.9 | 84[a] | 23 | 23[a] | 8† | 45[a] | 0.30 | − 2.48 | 0.15 | 0.0 | 3 | 24 | 5 | 2 | sw. | O. C. Nussle. |
| White Hall | Greene | 573 | 2 | 52.6 | ..... | 89 | 23 | 17 | 15 | 45 | 0.05 | ..... | 0.05 | 0.0 | 1 | 20 | 8 | 3 | w. | Dr. R. A. Pritchett. |
| Windsor | Shelby | 681 | 11 | 52.4 | +10.2 | 89 | 23 | 13 | 15 | 45 | 0.43 | − 2.57 | 0.35 | 0.0 | 4 | 18 | 8 | 5 | s. | Herbert Rose. |
| Winnebago | Winnebago | 900 | 23 | 46.0 | +11.7 | 84 | 29 | 16 | 8 | 46 | 0.36 | − 2.36 | 0.28 | 0.0 | 3 | 29 | 2 | 0 | sw. | Frank Osborn |
| Yorkville | Kendall | 584 | 23 | 46.3 | +11.5 | 82 | 23 | 18 | 15 | 48 | 0.07 | − 2.23 | 0.05 | 0.0 | 2 | 26 | 1 | 4 | w. | Herman A. Grimwood. |
| Zion | Carroll | 938 | 16 | 46.5 | +11.4 | 82 | 23† | 14 | 1 | 44 | 0.33 | − 1.73 | 0.29 | 0.0 | 2 | 29 | 1 | 1 | sw. | Robt. F. Gillogly. |

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1910. District No. 5, Upper Mississippi Valley.*

| Stations. | River basins. | Day of month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *North Dakota.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amenia | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | 1.27 | .15 | T. | 1.42 |
| Bottineau | Mouse | T. | | | | | | T. | | | | | | | | | | | | | | | | | T. | | | .06 | .13 | .05 | .48 | | 0.72 |
| Cando | Sheyenne | | | | | | | | | | T. | | | | | | | | | | | | | | | | | .07 | | T. | .28 | | 0.35 |
| Crosby | Mouse | T. | | | | .01 | | | | | | | | | | | | | | | | | | .07 | .30 | | T. | 1.29 | | .12 | | | 1.79 |
| Devils Lake | Sheyenne | | | | T. | | T. | T. | | | | | | | | | | | | | | | | | | | .03 | .05 | .01 | .23 | .02 | | 0.34 |
| Donnybrook | Mouse | | | | | | | | | | | | | | | | | | | | | | | .40 | | | | 1.40 | | .57 | | | 2.37 |
| Dunseith | do | | | | | | T. | | | | | | | | T. | | | | | | | | | | | | .75 | | | .38 | | | 1.13 |
| Edmore | Sheyenne | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Forman | do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .33 | .33 | | 0.66 |
| Grafton | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granville | Mouse | | | | | | | | | | | | | | | | | | | | | | | | .32 | | T. | .33 | | .31 | | | 0.96 |
| Hannah | Pembina | | | | T. | | T. | | | | | | | | | | | | | | | | | | | | | .11 | | .36 | | | 0.47 |
| Hansboro | Red | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .11 | | 1.10 | | | 1.21 |
| Hillsboro | do | | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | | .30 | .26 | | 0.58 |
| Lakota | Sheyenne | | T. | | T. | | T. | | | | T. | | | | | | | | | | | | | | | | | .24 | | .22 | .50 | | 0.96 |
| Langdon | Pembina | | | T. | .17 | T. | T. | T. | | | .08 | | | T. | | .09 | | | | | | | | | | | | | .14 | 1.09 | T. | | 1.57 |
| Larimore | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .40 | | 0.40 |
| Lisbon | Sheyenne | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .45 | .60 | | 1.05 |
| McKinney | Mouse | | | | | | | | | | | | | | | | | | | | | | | .25 | | | * | 1.36 | | .53 | | | 2.11 |
| Manfred | Sheyenne | | | | | | | | | | | | | | | | | | | | | | | | T. | | .02 | .08 | | .20 | .06 | | 0.36 |
| Mayville | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .19 | .85 | | 1.04 |
| Minot | Mouse | | | | | | | | | | | | | | | | | | | | | | | | .32 | | | .51 | .03 | | .41 | | 1.37 |
| Minto | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | .15 | .85 | .15 | | 1.15 |
| Oriska | Sheyenne | | | | | T. | | | | | | | | | | | | | | | | | | | | | | T. | | .29 | .87 | | 1.16 |
| Park River | Red | | | | T. | | T. | T. | | | .03 | | | | | | | | | | | | | | | | .13 | | | .29 | .40 | | 0.85 |
| Pembina | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | .22 | .28 | .45 | | 0.95 |
| Portal | Mouse | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | .15 | .38 | | | 0.53 |
| Power | Sheyenne | | | | | | | | | | | | | | | | | | | | | | | .25 | | | 1.40 | | | .53 | | | 2.18 |
| Pratt | Mouse | | | | | | T. | | | | | .05 | | | | | | | | | | | | | | | | | | | | 1.17 | 1.22 |
| University | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .16 | T. | | 0.16 |
| Wahpeton | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Walhalla | Pembina | | | | | T. | | | | | | | | | | | | | | | | | | .02 | | | T. | 1.27 | | .85 | .05 | | 2.29 |
| Westhope | Mouse | | | | | | | | | | | | | | | | | | | | | | | | | | | .38 | | .56 | | | 0.94 |
| Willow City | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Minnesota.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | T. |
| Albert Lea | Mississippi | | | | .04 | T. | | | | | | | | | | | | | | | | | | | | | | T. | | .03 | T. | | 0.07 |
| Alexandria | do | | | | | | T. | | | | T. | | | | | | | | | | | | | | .07 | | | .04 | | .25 | .47 | | 0.76 |
| Angus | Red | | | | | | T. | | T. | | | | | | | | | | | | | | | | T. | | | .06 | .02 | 10. | .34 | | 0.59 |
| Bagley | do | | | | T. | | T. | | | | | | | | | | T. | | | | | | | | | | | .17 | | .35 | .44 | | 0.96 |
| Baudette | Rainy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .06 | | | |
| Beardsley | Minnesota | | | | | | | | | | | | | | | | | | | T. | | | | | | | | .13 | | .10 | .11 | .01 | 0.55 |
| Beaulieu | Red | T. | | | | | | T. | | T. | | T. | | | | | | | | | | | | .20 | | | T. | | | .08 | .05 | | 0.13 |
| Bird Island | Minnesota | | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Caledonia | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .12 | .20 | | 0.35 |
| Campbell | Red | | | | .03 | | | T. | | | | .05 | | | | | | | | | | | | | | | | | T. | .10 | T. | | 0.15 |
| Cass Lake | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .11 | | | 0.11 |
| Collegeville | do | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | T. | .10 | .28 | .29 | .05 | 0.64 |
| Crookston | Red | | | | | | | | | | | T. | | | | | | | | | | | | | | T. | | T. | T. | T. | .08 | .05 | 0.18 |
| Detroit | do | | | | | | | .05 | T. | T. | | T. | | | | | | | | | | | | | | | | | | .03 | T. | | 0.09 |
| Fairmont (near) | Minnesota | | | | .08 | T. | | | | | | | | | | | | | | | | | | | | | | | | .21 | .02 | | 0.25 |
| Faribault | Mississippi | .02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | .04 | T. | | 0.04 |
| Farmington | do | T. | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | T. | .20 | T. | 0.20 |
| Fergus Falls | Red | | | | | | T. | T. | | | | | | | | | | | | | | | | | | | | | | | .10 | | 0.10 |
| Fort Ripley | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | .10 | | | .05 | 1.35 | | .27 | | 1.77 |
| Foston | Red | | | | | | T. | T. | T. | | | | | | | | | | | | | | | | | | T. | | | T. | T. | | T. |
| Glencoe | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Grand Meadow | do | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .35 | | .35 | 1.00 | | 1.80 |
| Hallock | Red | | | | | | .10 | | | T. | | | | | | | | | | | | | | | | | | .05 | | .45 | .31 | .03 | 0.84 |
| Halstad | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Hinckley | St. Croix | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .63 | .45 | .04 | 1.32 |
| International Falls | Rainy | | | | T. | | .10 | | | | | T. | | | | | .10 | | T. | | | | | | T. | | | | | | | | |
| Kelliher | Red | | | | | | .04 | | | | T. | | | | | | | | | | | | | | | | | | | .01 | | | 0.01 |
| Lake Crystal | Minnesota | | | | | | | | | | | .03 | | | | | | | | | | | | | .02 | | | | | .18 | .06 | | 0.29 |
| Leech Lake Dam | Mississippi | | | | | | T. | | | | T. | | | | | | | | | | | | | | | | T. | | | .13 | .07 | | 0.20 |
| Little Falls | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .49 | | .12 | |
| Little Fork | Rainy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .13 | T. | 0.13 |
| Long Prairie | Mississippi | | | | T. | T. | | | | | | | | | | | | | | | | | | | | | | | | T. | .08 | | 0.08 |
| Lynd (2) | Minnesota | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Mankato | do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | | | |
| Mapleplain | Mississippi | .08 | | T. | T. | | T. | | | | T. | | | | | | | | | | | | | | | | T. | | | T. | | | T. |
| Milaca | do | | | | | | | | | | T. | | | | | | | | | | | | | | | | T. | | | T. | .13 | | 0.13 |
| Milan | Minnesota | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .04 | T. | | 0.09 |
| Minneapolis | Mississippi | .05 | | | T. | | T. | T. | | | T. | | | | | | | | | | | | | | | | | T. | | | .06 | .06 | 0.13 |
| Montevideo | Minnesota | | | .01 | | | | | | | | | T. | | | | | | | | | | | | | | | | | .22 | .13 | | 0.36 |
| Moorhead | Red | | | | | | .01 | | | | T. | | | | | | | | | | | | | | | | | | | .02 | .02 | | 0.09 |
| Mora | St. Croix | | | | | | | | | | | .05 | | | | | | | | | | | | | | | | | | .03 | .45 | | 0.48 |
| Morris | Minnesota | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | .07 | .03 | | 0.10 |
| New London | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .06 | T. | | 0.10 |
| New Richland | Minnesota | .04 | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .10 | T. | 0.10 |
| New Ulm | do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .06 | .01 | | 0.07 |
| Osakis | Mississippi | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | T. | | .11 | .02 | 0.18 |
| Park Rapids | do | | | | | | T. | T. | | | T. | .05 | | | | | | | | | | | | | T. | | | T. | | .15 | T. | | 0.15 |
| Pine River Dam | do | | | | | | T. | | | | | | | | | T. | | | | | | | | | | | T. | | | .21 | T. | T. | 0.29 |
| Pokegama Falls | do | | | | | | T. | | | | T. | .08 | | | | | | | | | | | | | T. | | | T. | | .67 | .32 | .07 | 1.06 |
| Red Lake | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | 0.04 |
| Red Wing | Mississippi | .04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .07 | | 0.07 |
| Redwood Falls | Minnesota | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. |
| Reeds Landing | Mississippi | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. |
| Rochester | do | T. | | | | | | | | | | | | | | | | | | | | | | | | | | .12 | | .42 | .43 | | 1.41 |
| Roseau | Red | .17 | | | | T. | .11 | | | | | .16 | | | | | | | | | | | | | | | | | | | T. | | T. |
| St. Charles | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .17 | T. | | 0.18 |
| St. Cloud | do | T. | | | T. | | .01 | | | | T. | | | | | | | | | | | | | | | | T. | | | .08 | .01 | | 0.16 |
| St. Paul | do | .06 | | | .01 | | | T. | | | T. | | | | | | | | | | | | | | | | | | | .08 | T. | | 0.08 |
| St. Peter | Minnesota | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sandy Lake Dam | Mississippi | | | | | | | | | | | | | | | | | | T. | | | | | | T. | | | T. | T. | .18 | .14 | | 0.34 |
| State Sanatorium | do | | | | | | | | | | .02 | | | | | | | | | | | | | | | | | | | | .16 | T. | 0.22 |
| Stillwater | St. Croix | .06 | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Taylors Falls | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .63 | .23 | | 0.86 |
| Warroad | Rainy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .00 |
| West Concord | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .10 | | 0.22 |
| Willow River | St. Croix | .12 | | | | | T. | | | | T. | | | | | | | | | | | | | | | | T. | | | .11 | T. | | 0.11 |
| Windom | Des Moines | | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .07 | T. | 0.07 |
| Winnebago | Minnesota | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | .03 | | 0.23 |
| Winnibigoshish | Mississippi | | | | T. | | T. | T. | | | | T. | | | | | | | | | | | | | | | | | | | | | |

TABLE 2.—*Daily precipitation for March, 1910. District No. 5*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Minnesota*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Winona | Mississippi | .02 | | | T. | | | T. | | | | T. | | | | | | | | | | | | | | | | | | | T. | T. | 0.02 |
| Worthington[‖] | Des Moines | | | .08 | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | 0.08 |
| Zumbrota | Mississippi | .02 | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | 0.02 |
| *South Dakota.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Milbank | Minnesota | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .35 | | 0.35 |
| *Wisconsin.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antigo | Wisconsin | | | | | | T. | | | | T. | .20 | | | | | | | | | | | | | | | | | | | T. | | 0.20 |
| Barron | Chippewa | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | | | T. |
| Beloit | Rock | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Brodhead | do | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Burnett | do | .02 | | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | 0.02 |
| Delavan | do | T. | | | | | | | | | | | | | | | | | | .02 | | | | | | | | | | | .10 | | 0.12 |
| Dodgeville | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Downing | Chippewa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. |
| Eau Claire | do | .01 | | | T. | | T. | | | | | | | | | | | | | | | | | | | | | | | | T. | | 0.01 |
| Ellsworth | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glidden | Chippewa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grand Rapids[‖] | Wisconsin | | | T. | T. | | T. | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. |
| Grantsburg | St. Croix | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | .10 | | 0.10 |
| Hancock | Wisconsin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .03 | | 0.03 |
| Hatfield | Black | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Hayward | St. Croix | | | | | | T. | | | | .02 | .25 | | | | | | | | | | | | | | | | | | | .08 | | 0.35 |
| Hillsboro | Wisconsin | | | T. | T. | | | | | | | T. | | | | | | | T. | | | | | | | | | | | | T. | | T. |
| Koepenick | do | | | | | | | | | | | .20 | | | | | | | | .03 | | | | | | | | .10 | | | .02 | | 0.35 |
| LaCrosse | Mississippi | .02 | | T. | T. | | | | | | | T. | | | | | | | | .01 | | | | | | | | | | T. | | | 0.03 |
| Lake Mills | Rock | .12 | | | | | | T. | | | | T. | | | | | | | | | | | | | | | | | | | .02 | | 0.14 |
| Lancaster | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Long Lake | Wisconsin | .01 | | .04 | | | | | | | | .15 | | T. | | | | T. | | .03 | | | | | | | | T. | | | T. | T. | 0.23 |
| Madison | Rock | .04 | | | | | | T. | | | | T. | | | | | | | T. | | | | | | | | | | | | .10 | | 0.14 |
| Mather[‖] | Wisconsin | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Mauston | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Meadow Valley | do | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Medford | Black | | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | | 0.10 |
| Merrill | Wisconsin | .02 | | | | | T. | | | | .17 | | | | | | | T. | | | | | | | | | | .03 | | | | | 0.22 |
| Minocqua | do | | | | | | T. | | | | | .15 | | | | | | | | | | | | | | | | | | | | | 0.15 |
| Mondovi | Mississippi | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Mount Horeb | Rock | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | .10 | | 0.10 |
| Muscoda[‖] | Wisconsin | | T. | | | | | | | | | T. | | | | | | | | .12 | | | | | | | | | | | T. | | 0.12 |
| Neillsville | Black | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| New Richmond | St. Croix | | | T. | T. | | T. | | | | | | | | | | | | | | | | | | | | | | | | .08 | | 0.08 |
| Osceola | do | | | | | | | | | | T. | | | | | | | | | | | | | | | | T. | | | | .13 | | 0.13 |
| Portage | Wisconsin | T. | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | 0.05 |
| Prairie du Chien[‖] | Mississippi | | | | .02 | T. | | | | | | | | | | | | | | T. | | | | | | | | | | | T. | | 0.02 |
| Prentice | Chippewa | .04 | | T. | | | | | | | | .38 | | | | | | | | | | | | | | | | | | | | | 0.42 |
| Rhinelander | Wisconsin | .04 | | .03 | | | | | | | | .27 | | T. | | | | .03 | | | | | | | | | | | | T. | | .01 | 0.38 |
| Sauk City | do | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .10 | | 0.10 |
| Shullsburg | Mississippi | .06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | .07 | | | 0.13 |
| Solon Springs | St. Croix | | | | | | | | | | .10 | | | | | | | | | | | | | | | | T. | | | | | | 0.10 |
| Spooner | do | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. |
| Stanley | Chippewa | | | | | | T. | | | | | .03 | | | | | | | | | | | | | | | | | | | | | 6.03 |
| Stevens Point | Wisconsin | | | | | | | | | | | .06 | | | | | | | | | | | | | | | | T. | | | T. | | 0.06 |
| Valley Junction | do | T. | | T. | | | | T. | | | | T. | | | | | | | | | | | | | | | | | | | | | T. |
| Viroqua | Mississippi | | | T. | T. | | | T. | | | | T. | | | | | | | T. | | | | | | | | | | | | T. | T. | T. |
| Vudesare | Wisconsin | | T. | | | | T. | | | | T. | .12 | | | | T. | | .30 | | | | | | | | | | | | | T. | T. | 0.62 |
| Watertown[‖] | Rock | | .10 | | | | | | T. | | | | T. | | | | | | | | | | | | | | | | | | .14 | | 0.24 |
| Waukesha | Fox | .06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .08 | | 0.14 |
| Wausau | Wisconsin | .03 | | | | | | | | | | .04 | | | | | | T. | | | | | | | | | | | | | T. | | 0.07 |
| Weyerhaeuser | Chippewa | .05 | | T. | | | T. | T. | | | | .07 | | | | | | | T. | | | | | | | | | | | .01 | .05 | | 0.18 |
| Whitehall | Mississippi | .05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.05 |
| *Iowa.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Albia[‖] | Des Moines | T. | | | | | | | | | | | | | | | | | | | | | | | | | 31 | | | | .04 | | 0.35 |
| Algona | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Alta[‖] | Raccoon | .01 | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | .04 | | 0.05 |
| Amana | Iowa | | | | | | | | | | | | | | | | | | | | | | | | | | .18 | | | T. | .07 | | 0.25 |
| Ames | Skunk | | | | | | | | | | | | | | | | | | | | | | | | | | 1.32 | | | T. | T. | | 1.32 |
| Baxter | do | | | | | | | | | | | | | | | | | | .01 | | | | | | | | .21 | | | .02 | | | 0.24 |
| Belle Plaine | Iowa | .10 | | | | | | | | | | | | | | | | | | | | | | | | | .33 | | | .03 | | | 0.46 |
| Belmond | do | .07 | | .09 | T. | T. | | | | | | | | | | | | | | | | | | | | | | | | | .05 | .02 | 0.23 |
| Bloomfield | Mississippi | T. | | | | | | | | | | | | | | | | | | | | | | | | | .43 | | | .02 | | | 0.45 |
| Bonaparte | Des Moines | | | | | | | | | | | | | | | | | | T. | | | | | | | | .42 | | | .25 | | | 0.67 |
| Boone[‖] | do | | | | | | | | | | | | | | | | | | | | | | | | | | .28 | | | | .04 | T. | 0.32 |
| Britt | Iowa | T. | | .11 | | | | | | | | | | | | | | | | T. | | | | | | | | | | .02 | | | 0.13 |
| Buckingham | Cedar | T. | | | | | | | | | | | | | | | | T. | | | | | | | | | T. | | | T. | | | T. |
| Burlington[‖] | Mississippi | T. | | | | | | | | | | | | | | | | | | | .10 | | | | | | .41 | | | .40 | | | 0.91 |
| Carroll[‖] | Raccoon | | | | | | | | | | | | | | | | | | | | | | | | | .04 | | | | | | | 0.04 |
| Cedar Rapids[‖] | Cedar | T. | | T. | | | | | | | | | | | | | | | | | | | | | | T. | T. | | | | | | T. |
| Charles City | do | .01 | | .04 | | | | | | | | | | | | | | | | .12 | | | | | | | | | | .01 | T. | | 0.18 |
| Clear Lake | do | | | | | | | | | | | | | | | | | | | .10 | | | | | | | | | | | | | 0.10 |
| Clinton | Mississippi | T. | | | | | | | | | | | | | | | | | | | | | | | | | .17 | .02 | | | .16 | | 0.35 |
| Columbus Junction | Iowa | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | | | .10 | | 0.30 |
| Davenport | Mississippi | T. | | T. | | | | | | | | | | | | | | | | .06 | | | | | | | .17 | | | .04 | .12 | | 0.39 |
| Decorah | do | | | .05 | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | 0.05 |
| Delaware | do | | | .13 | | | | | | | | | | | | | | | | | | | | | | | .05 | | | .03 | | | 0.21 |
| Des Moines | Des Moines | T. | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | | | | | 0.33 |
| De Soto | Raccoon | | | | | | | | | | | | | | | | | | | | | | | | | .28 | T. | | | T. | | | T. |
| Dubuque | Mississippi | .01 | | T. | | | | | | | | T. | | | | | | | | | | | | | | T. | .08 | | | .01 | .04 | | 0.14 |
| Earlham | Raccoon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Elkader | Mississippi | T. | | .02 | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | 0.02 |
| Elma | Wapsipinicon | T. | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | .02 | T. | 0.02 |
| Estherville[‖] | Des Moines | | | .07 | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.07 |
| Fairfield | Skunk | | | | | | | | | | | | | | | | | | T. | | | | | | | | .25 | | | T. | .28 | | 0.53 |
| Fayette | Mississippi | T. | | .05 | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | | 0.10 |
| Forest City[‖] | Cedar | | | .05 | | | | | | | | | | | | | | | | .07 | | | | | | | | | | | .12 | T. | 0.24 |
| Fort Dodge[‖] | Des Moines | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fort Madison | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | .35 | | | .40 | | | 0.75 |
| Gilman | Iowa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grand Meadow | Mississippi | T. | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | .01 | | 0.01 |
| Greene | Cedar | | | .12 | | | | | | | | | | | | | | | | .10 | | | | | | | | | | T. | | | 0.22 |
| Grinnell | Iowa | | | | | | | | | | | | | | | | | | .02 | | | | | | | | .74 | | | .04 | | | 0.80 |
| Grundy Center | Cedar | | | .02 | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | 0.02 |
| Guthrie Center | Raccoon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .01 | T. | | 0.01 |
| Hampton | Cedar | | .20 | .10 | | | | | | | | | | | | | | | .03 | | | | | | | | | | | .03 | | | 0.36 |
| Humboldt | Des Moines | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .08 | | 0.08 |
| Independence | Wapsipinicon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 5*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Iowa*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Indianola | Des Moines | | | | | | | | | | | | | | | | | | | | | | | | | | .31 | | | .01 | | | 0.32 |
| Iowa City‖ | Iowa | | | | | | | | | | | | | | | | | | | | | | | | | | .10 | | | | .18 | | 0.28 |
| Iowa Falls‖ | ...do | | | T. | T. | | | | | | | | | | | | | | | T. | | | | | | | | | | | | T. |
| Jefferson | Raccoon | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | T. | | | T. |
| Keokuk | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | .17 | | | .13 | .23 | | 0.53 |
| Keosauqua‖ | Des Moines | | | | | | | | | | | | | | | | | | .45 | | | | | | | | .39 | | | | .39 | | 1.23 |
| Knoxville | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | .45 | | | .05 | | | 0.50 |
| Lacona | ...do | | | | | | | | | | | | | | | | .10 | | | | | | | | | | | .20 | .30 | | | | 0.60 |
| Le Claire‖ | Mississippi | | T. | | .12 | | | | | | | | | | | | | | | | .05 | | | | | | .01 | .04 | | | .15 | | 0.37 |
| Marshalltown‖ | Iowa | .04 | | | | | | | | | | | | | | | | | | .10 | | | | | | | .20 | | | | | | 0.34 |
| Mason City | Cedar | | | | | | | | | | | | | | | | | | | .18 | | | | | | | | | | .08 | | | 0.26 |
| Mount Pleasant | Skunk | T. | | | | | | | | | | | | | | | | | | | T. | | | | | | .53 | | | | .20 | | 0.73 |
| Muscatine‖ | Mississippi | | T. | | | | | | | | | | | | | | | | | | | | | | | | .26 | .02 | | | .08 | | 0.36 |
| New Hampton | Wapsipinicon | | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | | | | 0.15 |
| Newton | Skunk | | | | | | | | | | | | | | | | | | | | | | | | | | .27 | | | | | | 0.27 |
| Northwood | Cedar | .02 | | .01 | | | | | | | | | | | | | | | T. | | | | | | | | | | | .04 | .01 | | 0.08 |
| Olin | Wapsipinicon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osage | Cedar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Oskaloosa | Des Moines | T. | | | | | | | | | | | | | | | | | | | | | | | | | .25 | | | .03 | | | 0.28 |
| Ottumwa | ...do | .01 | | | | | | | | | | | | | | | | | | | | | | | | | .77 | | | .09 | | | 0.87 |
| Pella | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | .18 | | | .02 | T. | | 0.20 |
| Perry | Raccoon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | T. |
| Plover | Des Moines | | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | .04 | | | 0.04 |
| Pocahontas | ...do | | | .01 | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | | | 0.03 |
| Ridgeway | Mississippi | .10 | | .05 | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | .01 | | 0.18 |
| Rockwell City | Raccoon | | | T. | | | | | | | | | | | | | | | | | | | | | | T. | | | | | T. | | T. |
| Sac City | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| St. Charles | Des Moines | | | | | | | | | | | | | | | | | | | | | | | | | | .03 | | | T. | T. | | 0.03 |
| Sigourney | Skunk | T. | | | | | | | | | | | | | | | | | .05 | | | | | | | | .35 | | | T. | .10 | | 0.50 |
| Stockport | ...do | | | | | | | | | | | | | | | | | | .62 | | | | | | | | .72 | | | T. | .32 | | 1.06 |
| Storm Lake | Raccoon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | 0.05 |
| Stuart‖ | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Tipton | Cedar | T. | | | | | | | | | | | | | | | | | | | | | | | | | .06 | | | .11 | | | 0.17 |
| Toledo | Iowa | | | | | | | | | | | | | | | | | | T. | | | | | | | | .20 | | | | | | 0.20 |
| Wapello | ...do | T. | | | | | | | | | | | | | | | | | | | T. | | | | | | .33 | | | | .11 | | 0.44 |
| Washington | Skunk | | | | | | | | | | | | | | | | | | | | | | | | | | .43 | | | .19 | | | 0.62 |
| Waterloo‖ | Cedar | | | .06 | | | | | | | | | | | | | | | | | | | | | | T. | | | | .03 | T. | | 0.09 |
| Waukee | Raccoon | | | | | T. | | | | | | | | | | | | | | | | | | | | | .35 | | | .02 | T. | | 0.37 |
| Waverly | Cedar | | | .11 | | | | | | | | | | | | | | | | | | | | | | | | | | .03 | | | 0.14 |
| Webster City | Des Moines | | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| West Bend | Des Moines | | | .06 | | | | | | | | | | | | | | | | T. | | | | | | | | | | .08 | T. | | 0.14 |
| Whitten | Iowa | | | T. | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | | T. |
| Winterset | Des Moines | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | | T. |
| Zearing | Iowa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Missouri.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Darksville | Chariton | | | | | | | | | | | | | | | | | | | | .20 | | | | | | | | | .47 | | | 0.67 |
| Gorin | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | | .29 | | | 0.49 |
| Hannibal | ...do | T. | | | | | | | | | | | | | | | | | .01 | | | | | | | | T. | | | .02 | .12 | | 0.15 |
| Lousiana | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | 0.20 |
| Mexico‖ | ...do | .04 | | | | | | | | | .03 | | | | | | | | | | .20 | | | | | | | | | | .18 | | 0.45 |
| Steffenville | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | .50 | | 0.50 |
| Sublett | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | .10 | | 0.10 |
| Warrenton‖ | ...do | | | | | | | | | | .01 | | | | | | | | | | .18 | | | | | | | | | | .11 | | 0.30 |
| *Indiana.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Collegeville | Iroquois | .18 | | | | | | | | | | | | T. | | | | | | | .25 | | | | | | .45 | | | | .10 | | 0.98 |
| Knox | Kankakee | .05 | .02 | | | | | | | | | T. | | T. | | | | | | .07 | .19 | | | | | | | | | | .02 | .16 | 0.51 |
| Laporte | ...do | .24 | | | | | | T. | | | | T. | | T. | | | | | | | .10 | | | | | | | | | | | .15 | 0.49 |
| Plymouth | ...do | .03 | | | | | | T. | | | | T. | T. | | .02 | | | | | T. | .07 | | | | | | | | | | T. | .21 | 0.33 |
| *Illinois.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aledo | Mississippi | | | | | | | | | | | | | | | | | | | | T. | | | | | | .50 | | | | .20 | | 0.70 |
| Alexander | Illinois | T. | T. | | | T. | | | | | | | | | | | | | | | | | | | | | T. | | | | .04 | | 0.04 |
| Antioch | ...do | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | 0.05 |
| Astoria | Illinois | T. | | | | | | | | | | | | | | | | | | | | | | | T. | | .35 | | | | .05 | | 0.40 |
| Aurora | ...do | T. | | | | | | | | | | | | | | | | | | | .22 | | | | | | .02 | | | .12 | | | 0.36 |
| Bement | Mississippi | | | | | .01 | | | | | | | | | | | | | | | .14 | | | | | | .26 | | | | | | 0.41 |
| Benton | ...do | | | | | | | | | | | | | | | | | | T. | T. | | | | | | | | | | | | | T. |
| Bloomington | Illinois | | | | | | | | | | | | | | | | | | | | .09 | | | | | | .40 | | | | .12 | | 0.61 |
| Cairo | Mississippi | T. | | | | | | | | 1.20 | .04 | | | | | | | | | | .12 | | T. | | | | | | | | .02 | .01 | 1.39 |
| Carbondale | Mississippi | | | | | | | | | | | | | | | | | | | | .09 | | | | | | | | | | | | 0.09 |
| Carlinville | Illinois | | | | | T. | | | | | | | | | | | | | .07 | | T. | | | | | | | | | | .08 | | 0.15 |
| Carlyle | Mississippi | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | T. | | T. |
| Chester | ...do | .04 | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | T. | | 0.04 |
| Clinton | Illinois | | | | | T. | | | | | | | | | | | | | | T. | .01 | | | | | | .19 | | | T. | .09 | | 0.29 |
| Coatsburg | Mississippi | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | .15 | | 0.15 |
| Cobden | ...do | | | | | | | | | | | | | | | | | | | | .10 | | | | | | | | | | | | 0.10 |
| Dakota | Mississippi | .03 | | | | | | | | | | | | | | | | | | | .13 | | | | | | T. | | | | .25 | T. | 0.41 |
| Decatur‖ | Illinois | | | | | T. | | | | | | | | | | | | | | | .35 | | | | | | .17 | | | T. | .06 | | 0.58 |
| Dixon‖ | Mississippi | | T. | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .20 | | 0.20 |
| Du Quoin | ...do | .03 | | | | | | | | | | T. | | | | | | | | | .05 | | | | | | | | | T. | | | 0.08 |
| Dwight | Illinois | T. | | .03 | | | | | | | | T. | | | | | | | | | .11 | | T. | | | | .28 | | | | .10 | | 0.52 |
| Edwardsville | Mississippi | | | | | | | | | | | | | | | | | | | | | .04 | | | | | | | | | .09 | | 0.13 |
| Galva‖ | Illinois | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | | | .13 | | 0.33 |
| Grafton‖ | Mississippi | | | | | | | | | | | | | | | | | | | | .22 | | | | | | | | | | .20 | | 0.42 |
| Greenville | ...do | | | | | | | | | | | | | | | | | | | | | .03 | | | | | | | | | .04 | | 0.07 |
| Griggsville | Illinois | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Halfway | Mississippi | | | | | | | | | | | | | | | | | | | | .04 | | T. | | | | | | | T. | | | 0.04 |
| Havana | Illinois | | | | | | | | | | | | | | | | | | | | | | | | | | .26 | | | | | | 0.26 |
| Henry | ...do | | | T. | | | | | | | | | | | | | | | | | T. | | | | | | .06 | | | | .06 | | 0.12 |
| Hillsboro | Mississippi | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | T. |
| Joliet | Illinois | .01 | | | | | | | | | | | | | | | | | | | .23 | | T. | | | | | | | | | | 0.24 |
| Kishwaukee | Mississippi | .02 | | | | | | | | | | | | | | | | | | .08 | | | | | | T. | | | T. | | .17 | | 0.27 |
| La Grange | Illinois | T. | | | | | | | | | | | | | | | | | | | .05 | | | | | | | | T. | T. | | | 0.05 |
| La Harpe | ...do | T. | | | | | | | | | | | | | | | | | | | | | | | | | .34 | | | | T. | | 0.34 |
| Lanark | Mississippi | .04 | | T. | | | | | | | | T. | | | | | | | | | .02 | | | | | | .10 | | | | .12 | | 0.28 |
| La Salle | Illinois | | | .04 | | | | | | | | T. | | | | | | | | .01 | | | | | | | .12 | | | | .02 | | 0.19 |
| Lincoln | ...do | T. | | | | T. | | | | | | | | | | | | | | .12 | .25 | | | | | | .10 | | | | T. | | 0.47 |
| Loami | ...do | T. | | | | T. | | | | | | | | | | | | | T. | | T. | | | | | | T. | | | | T. | | T. |
| Martinton‖ | ...do | T. | | | | | | | | | | | | | | | | | T. | .02 | | | | | | .38 | | | | .05 | | | 0.45 |
| Mascoutah | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | | 0.02 |
| Minonk | Illinois | T. | T. | T. | | | | | | | | | | | | | | | | | | | | | | | .03 | | | | | | 0.03 |
| Monmouth | Mississippi | T. | | | | | | | | | | | | | | | | | | | .15 | | | | | | .46 | | | | .12 | | 0.73 |
| Morrison | ...do | .03 | | .08 | | | | | | | | | | | | | | | | | .04 | | | | | | .16 | | | | .13 | | 0.44 |
| Morrisonville | Illinois | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .04 | | 0.04 |
| Mt. Vernon‖ | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .02 | 0.02 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 5*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Illinois*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oregon | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | | | T. |
| Ottawa | Illinois | | | .06 | | | | | | | | T. | | | | | | | | | | | | | | | .34 | | | | .02 | | 0.42 |
| Pana | Mississippi | .04 | | | | | | | | | | | | | | | | | | .15 | .15 | | | | | | | | | | .06 | | 0.40 |
| Peoria | Illinois | T. | | | | | | | | | | | | | | | | | | .09 | .03 | | | | | | .38 | | | T. | .02 | | 0.52 |
| Pontiac | do | T. | | T. | | | | | | | | | | | | | | | | | .04 | | | | | | .09 | | | T. | .07 | | 0.20 |
| Riley | Mississippi | .02 | | | | | | | | | | T. | | | | | | | | | .18 | | T. | | | | | | | | .04 | | 0.24 |
| Rockford[‖] | do | | | | | | | | | | | | .01 | | | | | | | | .09 | | | T. | | | | | | | .17 | | 0.27 |
| Rushville | Illinois | | | | | | | | | | | | | | | | | | T. | | | | | | | .12 | | | | | | | 0.12 |
| St. Charles | do | T. | | | | | | | | | | T. | | | | | | | | | .25 | | T. | | | | | | T. | | .10 | | 0.35 |
| St. Peter | Mississippi | | | | | | | | | | | | | | | | | | | | .10 | | | | | | | | | | .05 | | 0.15 |
| Springfield | Illinois | T. | | | | T. | | | | | | | | | | | | | .08 | | T. | | | | | | .02 | | | | .08 | | 0.18 |
| Streator[‖] | Illinois | | | | | | | | | | | | | | | | | | | | .16 | | | | | | .18 | | | | .07 | | 0.41 |
| Sullivan | Mississippi | | | | | | | | | | | | | | | | | | | T. | .20 | | | | | | .07 | | | | .07 | | 0.34 |
| Sycamore[‖] | do | | | | | | | | | | | | | | | | | | | | .23 | | | | | | T. | | | | T. | | 0.23 |
| Tilden | do | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | .03 | T. | 0.03 |
| Tiskilwa | Illinois | T. | | .10 | | | | | | | | | | | | | | | | | .03 | | | | | | .05 | | | | .13 | | 0.31 |
| Walnut | Mississippi | T. | | .03 | | | | | | | | | | | | | | | | T. | | | | | | | .15 | | | | .12 | | 0.30 |
| Warsaw[‖] | do | | | | | | | | | | | | | | | | | | | | | | | | | | .10 | | | .33 | | | 0.43 |
| White Hall | Illinois | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | 0.05 |
| Windsor | Mississippi | | | | | T. | | | | | | | | | | | | | | .02 | .35 | | | | | | .02 | | | | .04 | | 0.43 |
| Winnebago | do | .05 | | | | | | | | | | | | | | | | | | | .03 | | | | | | T. | | | | .28 | | 0.36 |
| Yorkville | Illinois | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | | T. | | .05 | | 0.07 |
| Zion | Mississippi | | | | | | | | | | | | | | | | | | | T. | | | | | | | .04 | | | .29 | | | 0.33 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 5, Upper Mississippi Valley.*

| | North Dakota. | | | | | | | | | | Minnesota. | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bottineau.‡‡ | | Devils Lake. | | Lisbon.‡‡ | | Minot.‡‡ | | Pembina.‡‡ | | Collegeville. | | Crookston.‡‡ | | Grand Meadow. | | Montevideo.‡‡ | | Moorhead. | | New Ulm.‡‡ | | Pine River Dam. | | St. Paul. | | Winnibigoshish. | |
| Date. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 28 | 5 | 30 | 13 | 29 | 12 | 32 | 11 | 28 | 14 | 35 | 18 | 35 | 17 | 37 | 24 | 40 | 20 | 34 | 17 | 42 | 26 | 36 | 15 | 35 | 23 | 40 | 16 |
| 2... | 31 | 6 | 31 | 26 | 38 | 6 | 42 | 11 | 26 | 12 | 41 | 24 | 35 | 18 | 42 | 22 | 44 | 22 | 38 | 27 | 47 | 24 | 40 | 14 | 45 | 28 | 42 | 13 |
| 3... | 38 | 19 | 43 | 28 | 49 | 12 | 50 | 22 | 42 | 10 | 48 | 20 | 42 | 27 | 42 | 25 | 57 | 24 | 46 | 27 | 54 | 28 | 48 | 9 | 51 | 26 | 51 | 14 |
| 4... | 44 | 20 | 49 | 28 | 38 | 24 | 53 | 31 | 32 | 26 | 54 | 32 | 42 | 26 | 53 | 27 | 54 | 31 | 46 | 28 | 52 | 29 | 50 | 19 | 40 | 30 | 52 | 26 |
| 5... | 50 | 28 | 50 | 29 | 36 | 20 | 51 | 34 | 42 | 28 | 49 | 29 | 40 | 25 | 48 | 33 | 54 | 27 | 50 | 27 | 48 | 32 | 51 | 17 | 49 | 33 | 54 | 20 |
| 6... | 28 | 18 | 35 | 18 | 32 | 24 | 50 | 26 | 28 | 16 | 41 | 29 | 30 | 11 | 44 | 34 | 44 | 33 | 41 | 19 | 43 | 27 | 42 | 22 | 42 | 23 | 46 | 18 |
| 7... | 20 | 8 | 25 | 11 | 36 | 20 | 36 | 16 | 22 | 8 | 31 | 13 | 25 | 10 | 36 | 20 | 32 | 20 | 24 | 14 | 38 | 22 | 25 | 11 | 28 | 16 | 30 | 11 |
| 8... | 33 | 9 | 31 | 17 | 38 | 22 | 44 | 14 | 32 | 12 | 33 | 17 | 27 | 12 | 35 | 18 | 42 | 18 | 32 | 16 | 40 | 19 | 30 | 13 | 34 | 20 | 31 | 13 |
| 9... | 37 | 10 | 34 | 19 | 48 | 24 | 40 | 19 | 42 | 18 | 35 | 15 | 32 | 11 | 40 | 19 | 40 | 19 | 28 | 15 | 42 | 24 | 31 | 2 | 37 | 19 | 33 | 8 |
| 10... | 50 | 12 | 50 | 25 | 51 | 25 | 55 | 24 | 40 | 25 | 42 | 21 | 40 | 20 | 40 | 21 | 52 | 24 | 44 | 24 | 46 | 22 | 37 | 10 | 41 | 24 | 35 | 13 |
| 11... | 49 | 21 | 46 | 27 | 56 | 34 | 53 | 32 | 44 | 26 | 42 | 30 | 40 | 29 | 44 | 33 | 45 | 35 | 39 | 32 | 52 | 25 | 47 | 38 | 46 | 33 | 43 | 33 |
| 12... | 60 | 22 | 64 | 35 | 62 | 32 | 68 | 33 | 33 | 30 | 58 | 30 | 60 | 32 | 55 | 28 | 66 | 30 | 62 | 32 | 64 | 29 | 50 | 27 | 60 | 29 | 52 | 30 |
| 13... | 44 | 26 | 44 | 26 | 59 | 40 | 50 | 38 | 32 | 17 | 54 | 34 | 37 | 32 | 45 | 29 | 48 | 32 | 40 | 29 | 41 | 37 | 47 | 31 | 49 | 33 | 43 | 30 |
| 14... | 55 | 24 | 50 | 23 | 61 | 38 | 58 | 19 | 43 | 14 | 42 | 22 | 40 | 22 | 47 | 24 | 45 | 21 | 41 | 23 | 44 | 25 | 38 | 17 | 39 | 27 | 39 | 16 |
| 15... | 53 | 25 | 54 | 28 | 59 | 24 | 60 | 31 | 40 | 20 | 55 | 27 | 51 | 25 | 51 | 24 | 65 | 24 | 54 | 32 | 54 | 27 | 51 | 24 | 55 | 27 | 40 | 30 |
| 16... | 62 | 20 | 62 | 25 | 66 | 22 | 66 | 31 | 55 | 12 | 52 | 29 | 57 | 28 | 52 | 30 | 57 | 28 | 59 | 29 | 61 | 31 | 46 | 26 | 50 | 33 | 44 | 25 |
| 17... | 60 | 20 | 59 | 25 | 65 | 30 | 69 | 23 | 62 | 26 | 49 | 27 | 42 | 25 | 61 | 32 | 60 | 29 | 49 | 27 | 68 | 35 | 41 | 21 | 53 | 30 | 45 | 27 |
| 18... | 67 | 25 | 69 | 38 | 69 | 34 | 73 | 41 | 72 | 33 | 68 | 36 | 62 | 30 | 70 | 35 | 76 | 35 | 72 | 34 | 65 | 32 | 67 | 23 | 67 | 36 | 66 | 29 |
| 19... | 65 | 30 | 65 | 33 | 74 | 38 | 72 | 29 | 60 | 30 | 68 | 45 | 62 | 35 | 73 | 45 | 72 | 36 | 66 | 34 | 70 | 34 | 59 | 13 | 72 | 48 | 61 | 33 |
| 20... | 67 | 28 | 60 | 26 | 83 | 50 | 72 | 26 | 51 | 28 | 63 | 35 | 53 | 28 | 63 | 35 | 62 | 32 | 58 | 30 | 74 | 39 | 47 | 24 | 58 | 39 | 54 | 26 |
| 21... | 70 | 40 | 71 | 41 | 64 | 50 | 75 | 46 | 62 | 30 | 71 | 44 | 69 | 34 | 67 | 37 | 81 | 42 | 76 | 40 | 76 | 41 | 68 | 35 | 71 | 39 | 66 | 40 |
| 22... | 71 | 38 | 65 | 34 | 62 | 48 | 80 | 35 | 67 | 40 | 70 | 43 | 63 | 34 | 72 | 40 | 71 | 39 | 68 | 34 | 71 | 42 | 63 | 24 | 66 | 46 | 60 | 27 |
| 23... | 79 | 40 | 85 | 42 | 66 | 52 | 79 | 38 | 72 | 38 | 81 | 47 | 73 | 35 | 81 | 40 | 88 | 44 | 80 | 48 | 86 | 47 | 82 | 45 | 83 | 47 | 79 | 38 |
| 24... | 42 | 30 | 46 | 29 | 74 | 40 | 57 | 42 | 34 | 28 | 78 | 46 | 46 | 41 | 71 | 46 | 71 | 44 | 55 | 35 | 72 | 43 | 70 | 38 | 68 | 49 | 75 | 35 |
| 25... | 55 | 25 | 59 | 29 | 70 | 38 | 59 | 35 | 54 | 26 | 62 | 37 | 60 | 28 | 72 | 35 | 69 | 31 | 66 | 28 | 74 | 34 | 61 | 25 | 64 | 41 | 58 | 26 |
| 26... | 59 | 35 | 57 | 30 | 68 | 39 | 59 | 26 | 40 | 27 | 65 | 41 | 60 | 30 | 71 | 44 | 68 | 39 | 64 | 32 | 71 | 39 | 63 | 22 | 68 | 46 | 63 | 24 |
| 27... | 40 | 36 | 47 | 35 | 70 | 34 | 44 | 29 | 38 | 32 | 61 | 48 | 55 | 39 | 70 | 45 | 66 | 44 | 55 | 41 | 77 | 35 | 56 | 32 | 65 | 52 | 54 | 41 |
| 28... | 57 | 26 | 59 | 30 | 69 | 36 | 58 | 31 | 62 | 30 | 71 | 41 | 61 | 33 | 77 | 38 | 77 | 32 | 69 | 30 | 81 | 45 | 71 | 28 | 75 | 43 | 67 | 37 |
| 29... | 40 | 31 | 53 | 43 | 70 | 36 | 43 | 36 | 44 | 40 | 75 | 57 | 57 | 36 | 76 | 52 | 74 | 45 | 71 | 41 | 76 | 53 | 75 | 50 | 76 | 56 | 73 | 43 |
| 30... | 48 | 32 | 47 | 29 | 47 | 32 | 51 | 33 | 40 | 28 | 62 | 35 | 38 | 32 | 66 | 34 | 40 | 38 | 41 | 31 | 48 | 48 | 59 | 33 | 60 | 36 | 59 | 32 |
| 31... | 52 | 30 | 59 | 28 | 70 | 24 | 57 | 29 | 51 | 26 | 63 | 30 | 57 | 28 | 60 | 30 | 78 | 28 | 64 | 28 | 68 | 30 | 62 | 27 | 61 | 33 | 58 | 27 |
| Mns | 50.1 | 23.8 | 51.6 | 27.7 | 57.4 | 31.0 | 56.6 | 28.7 | 44.8 | 24.2 | 55.5 | 32.3 | 48.1 | 26.9 | 56.8 | 32.2 | 59.3 | 31.2 | 52.6 | 29.2 | 59.5 | 33.0 | 52.0 | 23.6 | 55.4 | 34.4 | 52.3 | 25.8 |

| | Wisconsin. | | | | | | | | | | | | | | Iowa. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Delavan. | | Eau Claire. | | La Crosse. | | Madison. | | Mauston. | | Spooner. | | Wausaw. | | Algona. | | Cedar Rapids.‡‡ | | Charles City. | | Davenport. | | Des Moines. | | Dubuque. | | Keokuk. | |
| Date. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 39 | 26 | 39 | 27 | 42 | 28 | 42 | 26 | 40 | 25 | 34 | 23 | 40 | 23 | 37 | 28 | 42 | 14 | 36 | 27 | 42 | 30 | 43 | 32 | 45 | 29 | 46 | 31 |
| 2... | 41 | 16 | 42 | 22 | 43 | 27 | 44 | 27 | 45 | 34 | 41 | 20 | 40 | 15 | 43 | 24 | 50 | 29 | 41 | 24 | 54 | 32 | 58 | 32 | 48 | 30 | 67 | 32 |
| 3... | 44 | 16 | 52 | 20 | 49 | 24 | 44 | 25 | 48 | 18 | 45 | 20 | 42 | 13 | 52 | 29 | 50 | 29 | 42 | 22 | 50 | 32 | 64 | 34 | 45 | 25 | 61 | 32 |
| 4... | 55 | 25 | 46 | 25 | 46 | 27 | 55 | 26 | 52 | 28 | 46 | 23 | 49 | 24 | 53 | 30 | 57 | 28 | 46 | 25 | 59 | 29 | 68 | 33 | 58 | 26 | 67 | 36 |
| 5... | 48 | 33 | 56 | 30 | 57 | 31 | 54 | 37 | 57 | 32 | 52 | 31 | 59 | 29 | 52 | 31 | 61 | 28 | 41 | 28 | 65 | 39 | 64 | 34 | 62 | 36 | 72 | 45 |
| 6... | 47 | 34 | 50 | 32 | 43 | 30 | 45 | 34 | 48 | 32 | 42 | 22 | 55 | 32 | 45 | 34 | 46 | 34 | 42 | 33 | 55 | 37 | 51 | 38 | 46 | 36 | 64 | 44 |
| 7... | 35 | 21 | 37 | 16 | 31 | 20 | 34 | 20 | 38 | 18 | 29 | 14 | 39 | 15 | 39 | 28 | 40 | 33 | 36 | 22 | 43 | 30 | 46 | 32 | 37 | 26 | 52 | 33 |
| 8... | 37 | 14 | 38 | 18 | 38 | 21 | 35 | 18 | 35 | 18 | 33 | 13 | 37 | 17 | 43 | 21 | 43 | 23 | 37 | 18 | 44 | 25 | 50 | 28 | 39 | 21 | 40 | 28 |
| 9... | 36 | 26 | 40 | 17 | 37 | 25 | 33 | 20 | 37 | 15 | 33 | 11 | 38 | 15 | 37 | 24 | 38 | 24 | 36 | 22 | 40 | 29 | 38 | 29 | 37 | 24 | 43 | 29 |
| 10... | 40 | 14 | 41 | 16 | 41 | 18 | 37 | 22 | 38 | 15 | 36 | 17 | 40 | 13 | 46 | 20 | 47 | 22 | 41 | 19 | 44 | 25 | 47 | 24 | 43 | 20 | 46 | 27 |
| 11... | 44 | 29 | 45 | 35 | 43 | 32 | 42 | 30 | 38 | 32 | 38 | 32 | 47 | 29 | 45 | 32 | 46 | 22 | 43 | 28 | 50 | 34 | 45 | 34 | 44 | 34 | 53 | 34 |
| 12... | 49 | 32 | 57 | 25 | 53 | 27 | 46 | 32 | 50 | 28 | 40 | 30 | 49 | 27 | 62 | 27 | 59 | 26 | 59 | 25 | 54 | 31 | 64 | 29 | 54 | 29 | 59 | 30 |
| 13... | 48 | 37 | 52 | 37 | 48 | 32 | 47 | 29 | 47 | 38 | 42 | 30 | 49 | 35 | 54 | 36 | 50 | 25 | 47 | 33 | 54 | 35 | 54 | 37 | 49 | 39 | 58 | 42 |
| 14... | 38 | 22 | 42 | 25 | 36 | 24 | 31 | 24 | 38 | 23 | 33 | 21 | 36 | 17 | 40 | 25 | 37 | 29 | 37 | 23 | 39 | 29 | 42 | 30 | 39 | 28 | 47 | 30 |
| 15... | 45 | 19 | 53 | 21 | 51 | 20 | 46 | 23 | 46 | 19 | 51 | 23 | 48 | 18 | 57 | 23 | 52 | 23 | 53 | 22 | 48 | 24 | 55 | 24 | 49 | 23 | 50 | 24 |
| 16... | 52 | 29 | 53 | 26 | 52 | 29 | 49 | 34 | 54 | 29 | 46 | 26 | 48 | 27 | 52 | 30 | 61 | 24 | 52 | 31 | 60 | 35 | 56 | 37 | 55 | 33 | 62 | 39 |
| 17... | 48 | 29 | 54 | 29 | 53 | 29 | 47 | 29 | 50 | 29 | 46 | 24 | 45 | 25 | 64 | 35 | 65 | 32 | 62 | 32 | 65 | 33 | 69 | 34 | 60 | 32 | 67 | 35 |
| 18... | 70 | 27 | 71 | 27 | 68 | 32 | 69 | 29 | 69 | 28 | 63 | 28 | 59 | 27 | 73 | 39 | 73 | 34 | 71 | 35 | 71 | 38 | 72 | 42 | 71 | 34 | 73 | 47 |
| 19... | 70 | 43 | 74 | 33 | 72 | 49 | 69 | 46 | 70 | 49 | 69 | 56 | 70 | 44 | 73 | 41 | 74 | 37 | 71 | 46 | 71 | 49 | 76 | 45 | 72 | 49 | 72 | 49 |
| 20... | 60 | 35 | 65 | 30 | 59 | 37 | 55 | 34 | 65 | 38 | 61 | 30 | 68 | 36 | 63 | 37 | 64 | 34 | 61 | 38 | 64 | 42 | 67 | 47 | 61 | 42 | 68 | 49 |
| 21... | 64 | 26 | 69 | 29 | 67 | 35 | 64 | 32 | 68 | 34 | 67 | 36 | 65 | 29 | 73 | 51 | 69 | 36 | 69 | 36 | 67 | 34 | 75 | 40 | 66 | 37 | 70 | 33 |
| 22... | 66 | 43 | 68 | 38 | 68 | 47 | 62 | 39 | 68 | 47 | 61 | 38 | 64 | 40 | 73 | 44 | 75 | 36 | 72 | 40 | 78 | 50 | 79 | 51 | 73 | 47 | 81 | 56 |
| 23... | 76 | 32 | 82 | 39 | 83 | 44 | 78 | 35 | 81 | 40 | 79 | 39 | 73 | 32 | 83 | 47 | 87 | 45 | 83 | 43 | 84 | 42 | 86 | 51 | 84 | 43 | 86 | 48 |
| 24... | 77 | 55 | 78 | 50 | 74 | 54 | 73 | 55 | 75 | 57 | 69 | 45 | 75 | 54 | 73 | 40 | 76 | 45 | 72 | 45 | 77 | 53 | 77 | 55 | 73 | 53 | 80 | 65 |
| 25... | 74 | 38 | 70 | 35 | 72 | 40 | 72 | 47 | 74 | 40 | 60 | 30 | 67 | 38 | 76 | 34 | 78 | 40 | 74 | 34 | 77 | 45 | 80 | 47 | 75 | 41 | 80 | 46 |
| 26... | 74 | 48 | 69 | 37 | 74 | 47 | 72 | 45 | 70 | 36 | 69 | 31 | 64 | 44 | 75 | 45 | 75 | 39 | 73 | 48 | 74 | 55 | 82 | 62 | 71 | 54 | 79 | 55 |
| 27... | 80 | 52 | 73 | 50 | 77 | 57 | 78 | 53 | 80 | 50 | 68 | 51 | 72 | 45 | 71 | 53 | 80 | 58 | 72 | 47 | 79 | 59 | 77 | 58 | 80 | 57 | 82 | 60 |
| 28... | 79 | 38 | 77 | 40 | 80 | 42 | 76 | 48 | 76 | 39 | 70 | 38 | 74 | 44 | 80 | 37 | 80 | 43 | 78 | 38 | 81 | 49 | 82 | 47 | 78 | 45 | 83 | 56 |
| 29... | 82 | 58 | 81 | 52 | 80 | 61 | 82 | 56 | 82 | 58 | 78 | 55 | 80 | 50 | 76 | 54 | 81 | 44 | 76 | 54 | 82 | 60 | 75 | 59 | 82 | 60 | 82 | 61 |
| 30... | 73 | 50 | 72 | 40 | 67 | 38 | 69 | 40 | 76 | 60 | 65 | 36 | 80 | 57 | 61 | 40 | 66 | 56 | 60 | 39 | 69 | 46 | 59 | 44 | 67 | 42 | 73 | 51 |
| 31... | 63 | 39 | 62 | 37 | 62 | 38 | 60 | 39 | 60 | 37 | 58 | 33 | 64 | 35 | 69 | 29 | 66 | 37 | 63 | 32 | 63 | 39 | 65 | 36 | 62 | 39 | 64 | 40 |
| Mns | 58.6 | 32.5 | 58.3 | 30.9 | 57.0 | 34.4 | 55.2 | 34.0 | 57.9 | 33.4 | 52.4 | 29.9 | 56.0 | 30.6 | 59.4 | 34.5 | 60.9 | 33.2 | 56.3 | 32.5 | 61.4 | 38.4 | 63.4 | 39.5 | 58.9 | 38.6 | 65.7 | 41.5 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 5*—Continued.

| Date. | Hannibal, Mo. | | Laporte, Ind. | | Illinois. | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Cairo. | | Greenville. | | La Salle. | | Monmouth. | | Mt. Vernon. | | Peoria. | | Springfield. | | Winnebago. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 51 | 32 | 42 | 27 | 60 | 37 | 46 | 33 | 39 | 32 | 40 | 30 | 53 | 29 | 41 | 30 | 47 | 34 | 37 | 26 |
| 2 | 60 | 30 | 45 | 25 | 67 | 36 | 60 | 29 | 52 | 30 | 60 | 23 | 66 | 32 | 57 | 27 | 62 | 31 | 41 | 26 |
| 3 | 65 | 32 | 48 | 26 | 73 | 48 | 65 | 36 | 46 | 30 | 59 | 30 | 80 | 34 | 57 | 28 | 61 | 36 | 45 | 20 |
| 4 | 72 | 37 | 61 | 29 | 78 | 53 | 72 | 44 | 60 | 33 | 65 | 32 | 83 | 41 | 64 | 32 | 70 | 40 | 53 | 26 |
| 5 | 78 | 48 | 67 | 35 | 80 | 58 | 76 | 46 | 71 | 38 | 74 | 43 | 76 | 48 | 69 | 42 | 73 | 48 | 59 | 36 |
| 6 | 64 | 38 | 61 | 33 | 75 | 46 | 64 | 48 | 56 | 39 | 60 | 42 | 65 | 42 | 56 | 38 | 61 | 40 | 48 | 36 |
| 7 | 55 | 34 | 38 | 23 | 62 | 40 | 55 | 34 | 40 | 29 | 50 | 32 | 57 | 38 | 47 | 28 | 50 | 35 | 38 | 25 |
| 8 | 50 | 30 | 42 | 22 | 65 | 42 | 56 | 29 | 42 | 26 | 47 | 24 | 60 | 31 | 47 | 24 | 51 | 29 | 36 | 16 |
| 9 | 42 | 30 | 41 | 29 | 49 | 35 | 42 | 29 | 41 | 28 | 40 | 28 | 50 | 31 | 40 | 26 | 41 | 29 | 37 | 20 |
| 10 | 46 | 30 | 40 | 17 | 51 | 34 | 49 | 30 | 42 | 26 | 47 | 21 | 53 | 33 | 44 | 24 | 44 | 28 | 40 | 20 |
| 11 | 57 | 31 | 47 | 29 | 58 | 35 | 58 | 34 | 52 | 32 | 53 | 30 | 64 | 29 | 54 | 30 | 56 | 30 | 47 | 30 |
| 12 | 58 | 29 | 49 | 26 | 56 | 38 | 54 | 34 | 53 | 36 | 57 | 28 | 60 | 30 | 54 | 31 | 54 | 36 | 55 | 30 |
| 13 | 60 | 40 | 48 | 32 | 72 | 44 | 68 | 41 | 54 | 37 | 59 | 40 | 58 | 30 | 58 | 34 | 60 | 39 | 40 | 34 |
| 14 | 40 | 27 | 37 | 20 | 48 | 35 | 50 | 29 | 37 | 27 | 46 | 27 | 57 | 24 | 39 | 23 | 40 | 28 | 35 | 25 |
| 15 | 50 | 21 | 42 | 14 | 46 | 28 | 46 | 22 | 47 | 24 | 53 | 20 | 50 | 19 | 46 | 18 | 48 | 24 | 46 | 20 |
| 16 | 65 | 40 | ..... | ..... | 63 | 37 | 67 | 33 | 59 | 36 | 63 | 37 | 69 | 25 | 60 | 32 | 63 | 34 | 55 | 31 |
| 17 | 67 | 32 | ..... | ..... | 68 | 48 | 65 | 35 | 64 | 33 | 69 | 32 | 70 | 33 | 66 | 30 | 65 | 38 | 59 | 28 |
| 18 | 71 | 41 | ..... | 30 | 68 | 49 | 74 | 44 | 70 | 32 | 74 | 43 | 77 | 36 | 71 | 35 | 70 | 43 | 58 | 30 |
| 19 | 71 | 49 | 68 | 40 | 69 | 49 | 71 | 48 | 63 | 47 | 73 | 44 | 76 | 38 | 70 | 48 | 70 | 47 | 73 | 40 |
| 20 | 68 | 48 | 43 | 34 | 72 | 51 | 74 | 51 | 69 | 34 | 67 | 47 | 81 | 48 | 65 | 37 | 66 | 37 | 63 | 42 |
| 21 | 70 | 33 | 62 | 30 | 69 | 46 | 70 | 34 | 67 | 29 | 71 | 28 | 83 | 39 | 69 | 28 | 68 | 32 | 66 | 27 |
| 22 | 83 | 57 | 68 | 40 | 80 | 55 | 75 | 53 | 77 | 43 | 80 | 51 | 81 | 42 | 78 | 50 | 80 | 53 | 73 | 46 |
| 23 | 88 | 50 | 76 | 36 | 86 | 62 | 86 | 50 | 84 | 37 | 88 | 43 | 90 | 56 | 85 | 44 | 86 | 45 | 80 | 34 |
| 24 | 81 | 53 | 81 | 53 | 87 | 65 | 87 | 60 | 79 | 57 | 82 | 55 | 90 | 55 | 89 | 51 | 84 | 59 | 76 | 56 |
| 25 | 81 | 44 | 68 | 48 | 78 | 61 | 83 | 55 | 78 | 46 | 81 | 40 | 85 | 56 | 79 | 40 | 79 | 52 | 77 | 43 |
| 26 | 83 | 60 | 72 | 47 | 84 | 60 | 75 | 56 | 74 | 52 | 75 | 51 | 78 | 53 | 74 | 51 | 74 | 51 | 76 | 50 |
| 27 | 84 | 64 | 82 | 50 | 84 | 64 | 85 | 56 | 80 | 53 | 82 | 55 | 90 | 54 | 81 | 56 | 84 | 58 | 80 | 52 |
| 28 | 85 | 61 | 83 | 48 | 85 | 64 | 85 | 58 | 82 | 49 | 84 | 45 | 89 | 56 | 83 | 49 | 85 | 59 | 80 | 45 |
| 29 | 81 | 61 | 77 | 56 | 78 | 66 | 78 | 58 | 82 | 59 | 82 | 57 | 84 | 56 | 81 | 61 | 79 | 60 | 84 | 58 |
| 30 | 72 | 47 | 74 | 57 | 74 | 60 | 77 | 55 | 75 | 46 | 71 | 51 | 80 | 61 | 76 | 46 | 78 | 48 | 72 | 50 |
| 31 | 62 | 42 | 60 | 42 | 62 | 54 | 65 | 44 | 63 | 43 | 67 | 38 | 65 | 48 | 62 | 41 | 63 | 42 | 64 | 40 |
| Means | 66.8 | 41.0 | 58.1[a] | 33.8[b] | 69.3 | 48.4 | 67.1 | 42.2 | 61.1 | 37.5 | 63.1 | 37.8 | 71.3 | 40.2 | 63.0 | 36.6 | 64.9 | 40.8 | 57.8 | 34.3 |

# Climatological Data for March, 1910.

## DISTRICT No. 6, MISSOURI VALLEY.

J. WARREN SMITH, District Editor.

### GENERAL SUMMARY.

Over the greater part of the Missouri watershed the month was the warmest and driest March on record.

The high and low pressure areas were poorly defined during most of the month and the depressions generally passed eastward across the northern part of the district.

There were very few cloudy and rainy days and the sunshine was from 10 to 25 per cent above the normal. The relative humidity was much below the normal.

The prevailing wind was from the west in Wyoming, Montana, and Colorado, from the northwest in North Dakota and South Dakota, from the south in Nebraska and Kansas, and from the southwest in Iowa and Missouri. The wind movement was less than the average for the month.

### TEMPERATURE.

The temperature averaged from 10° to 20° a day above the normal for the month and was from 2° to 8° higher than ever before recorded. In many instances the mean temperature was higher than the normal for April. The daily mean temperatures were above the normal nearly the whole month. The highest temperature was 101° at Grant, Nebr., on the 21st. Maximum temperatures of over 80° were recorded in all States and of over 90° in all, except Wyoming, Montana, North Dakota, and Colorado. The lowest temperature was −7° at Broncho, N. Dak., on the 1st. The lowest temperature recorded in Wyoming was −3°, Montana, −6°, and Colorado, −1°, while in other States the minimum temperatures were not lower than 10°.

### PRECIPITATION.

The precipitation was below the normal, except in extreme eastern Montana and western North Dakota, and in the Black Hills district in South Dakota. In Iowa, Nebraska, Kansas, Missouri, and most of Wyoming it was the driest March on record. At many stations in Iowa, Nebraska, and Kansas no rain or only a trace of rain fell during the month. The average for Iowa was only 0.03 inch and for Kansas only 0.04 inch. The greatest monthly precipitation was 3.90 inches at Deadwood, S. Dak., and the greatest amount in any 24 hours, 3.11 inches at Greenmont, S. Dak., on the 29th. The greatest monthly snowfall was 40.4 inches at Greenmont. Only a trace of snow fell in Iowa while the greatest amount at any station in Kansas was 1.8 inches, Missouri, 2.0 inches, and North Dakota, 3.0 inches.

### RIVERS.

Owing to the unusually mild weather the ice broke up in the Yellowstone River at the Lower Yellowstone Reclamation Project on March 4, and in the Missouri at the Buford–Trenton Project on the 10th. It broke up at Sioux City, Iowa, on the 5th, at Yankton, S. Dak., on the 6th, at Pierre, S. Dak., on the 11th, and at Bismarck, N. Dak., on the 13th. Newspaper reports indicate that this was the earliest breaking up of the ice at Bismarck for many years. Ice gorges formed in the rivers and considerable damage was done in Montana, North Dakota, and South Dakota.

The water reached 22.7 feet at Bismarck, N. Dak., on the 15th, which is the highest since May 27, 1887. The crest of the high water reached Fort Bennet, S. Dak., on the evening of the 17th where the water was higher than at any other time in the past 22 years. At Yankton, S. Dak., the ice began passing on the afternoon of the 18th, and the crest passed shortly after midnight of the 19th. The highest water at Sioux City, Iowa, was 16.8 feet on the afternoon of the 20th, and was 0.2 foot below the flood stage. At Kansas City the highest water was 20.2 feet, or 0.8 foot below the flood stage, on the 24th. The crest reached Glasgow and Boonville, Mo., on the 25th and Hermann and St. Louis on the 26th. At St. Louis the highest water was 7.5 feet below the flood stage, but at Boonville it was only 0.8 foot below.

Considerable damage was done on some of the smaller rivers in Montana, and the James River in South Dakota overflowed its banks in places during the middle of the month.



### MISCELLANEOUS.

The weather was unusually favorable for outside work in all parts of the district. The frost went out of the ground by the time the snow covering had disappeared and the growth of vegetation and the progress of farm work were from 2 to 4 weeks ahead of the average season.

The winter wheat showed considerable damage from the covering of ice in some parts of the district and for the lack of snow covering in others. The dry weather during the month had an unfavorable effect also.

Early fruit was in bloom in Kansas by the 20th and at the close of the month fruit was generally in bloom in Missouri, Iowa, and South Dakota. There were some damage by frost in lowlands in Missouri, but this was not extensive and the peach crop was unusually promising in that State.

The following special items were extracted from reports of section directors and others:

*Wyoming.*—The month was very favorable for stock. Heavy snow fell in some of the extreme eastern portions of the State on the 29th.—*W. S. Palmer.*

*Montana.*—The snow conditions in the mountains are shown by the following reports of the forest officers.—*R. F. Young.*

#### GALLATIN WATERSHED.

*Gallatin Mountains.*—March was an unusually warm month and a great deal of snow was melted, but the ground has taken up much of the water and conditions are excellent for a late flow of water from springs and small streams.—*F. E. Baker.*

*Bridger Mountains.*—There is more than the average amount of snow remaining in this range, and the drifts are frozen very hard. Everything is favorable for a late run-off under normal weather conditions from now on.—*I. Marston.*

*Bridger Mountains.*—The warm weather during March has taken off all the snow in the foothills. The only snow left is in the heavy timber in the high mountains and on the protected slopes.—*A. C. Berglund.*

#### JEFFERSON WATERSHED.

*Main Range.*—The early thaw has resulted in higher water than usual in the streams. Considerable snow at high altitudes has melted, but as the ground is not frozen much of the water was absorbed and conditions are favorable for a late flow of water.—*I. Kermeyer.*

*Bitterroot Mountains.*—Owing to the warm weather throughout March there is less snow in the upper Big Hole basin than usual at this time of year.—*G. E. Martin.*

*Main Range.*—While the snow is packed and solidly frozen, the ground was not in condition to absorb the water from the snow that has melted, most of which ran off into the streams.—*F. E. Hughes.*

#### JUDITH BASIN.

*Little Belt Mountains.*—There is more snow in the high mountains than for a number of years and the drifts are very solid from thawing and freezing, the conditions being favorable for a late flow of water.—*Thomas G. Myers.*

#### MADISON WATERSHED.

*Main Range.*—There is about 10 feet of solidly packed snow at 8,000 feet elevation. March was unusually warm, and the snow at lower altitudes has disappeared outside the timber, except a few large drifts on the north slopes.—*Camas Nelson.*

#### MILK RIVER WATERSHED.

*Little Rocky Mountains.*—March was very warm, with practically no snow, and consequently most of the snow in the mountains has disappeared, only a few large, hard drifts on the north slopes and in deep gulches remaining.—*F. G. Hart.*

MUSSELSHELL WATERSHED.

*Castle and Little Belt Mountains.*—At the beginning of the month there was as much snow in the mountains as I have seen in 20 years, but the warm March weather has taken most of it off. Unless there is more rain than usual there will likely be a shortage of water for irrigation.

*Snowy Mountains.*—There was more snow than usual at the beginning of the month, but it melted rapidly during March. In the high mountains the snow is very solid.—*R. O. Lewis.*

*Little Belt.*—No snow fell during March, but very little has melted and run-off from the higher elevations. The depth is from 2 to 15 feet at 7,000 feet altitude.—*F. R. Servoss.*

YELLOWSTONE WATERSHED.

*Absaroka Mountains.*—There is about 4.5 feet of snow at 7,500 feet elevation, and it is very solid. The fall was very light in March. The snow is very hard from thawing and freezing at high altitudes, and will furnish a steady flow of water during the spring and summer.—*R. A. Dewart.*

ICE IN RIVERS.

On the Central Montana and Puget Sound Railway, between Lombard and Maudlow, on Sixteen Mile Creek, all bridges were more or less damaged by high water and ice gorges, requiring 3 days to repair sufficient for traffic. The bridge at Callabar, Mont., was washed out, taking 2 days to repair. The bridge at Whitney, Mont., was damaged by high water and ice gorge, requiring 4 or 5 days to repair.—*E. H. Barrett, Assistant General Superintendent, Butte, Mont.*

*Burns, Mont.*—The damage by the ice gorges and high water at this point in the Yellowstone River was about $10,000 to private property. The gorge was about 6 miles long.—*N. H. Nelson.*

*Butte, Mont.*—High water and ice jams did considerable damage in Silver Bow County during the early part of March. Both bridges on Silver Bow Creek went out. Nearly all streams tributary to the Big Hole River, near Melrose and Divide, did much damage to ranches and roads. Bridges, roads, and ranches were damaged along Browns Gulch and Basin Creek.—*J. E. Rheim, County Commissioner.*

*Glendive, Mont.*—The ice went out of the river with little damage to Reclamation Service Works, only one small lateral being destroyed by the high water resulting from the gorge at Burns Creek, which backed the water up as far as Marco. At times the water was within 2 feet of the main canal bank in a few low places, and much damage would have resulted had it overflowed.

The railroad contractors were the heaviest losers, about 20,000 cubic yards of material being washed so badly as to necessitate replacing.

One farmer near Burns, Mr. David Davies, lost heavily on grain which he had stored on his farm, the water reaching a depth of 10 or more feet at this point.

Mr. E. J. Berry, who has a large ranch just above Glendive, lost heavily, quite a number of cattle and other stock being swept down the stream.—*Robert S. Stockton, Irrigation Manager, United States Reclamation Service.*

*North Dakota.*—The mean temperature for the State was 41.3°, or 20.3° above the normal.—*Orris W. Roberts.*

*South Dakota.*—At the close of February it was estimated that 30 to 40 per cent of the corn crop of 1909 was yet in the field. Therefore when the snow melted in March the unusual scene was observed of farmers on adjacent holdings engaged in spring plowing, seeding, and gathering corn at the same time. The early starting of grass was favorable for stock on the ranges which had been on scanty feed during the winter because of the depth of snow covering. Prairie fires caused much damage and loss of property in several northwestern counties. The snowstorm of the 29th and 30th in the western portion of the State delayed railroad traffic to some extent. The State game warden reports the weather very favorable to game birds and animals, and that the flight of wild fowl was earlier than usual. There was an ample supply of water in all streams, but the absence of rain reduced and in some places exhausted the supply of water in cisterns in parts of the eastern portion of the State.—*S. W. Glenn.*

*Colorado.*—Heavy frost occurred on the morning of the 30th, but it is believed that fruit buds were not sufficiently advanced to have been seriously injured. The high wind of the 29th caused much damage to telephone and telegraph poles. Over extensive areas of the plains the poles were torn out of the ground by the combined action of the snow and wind. Trains were also much delayed by the drifting snow. At Sedgwick a small tornado occurred on the 29th; the path was from 200 to 400 feet in width, and extended from northeast to southwest. Two persons were injured and the property loss is estimated at $3,500. The early date of this storm is noteworthy; tornadoes are of rare occurrence in Colorado, although several have been reported from the northeastern portion. The amount of snow in the mountains at the close of March was much less than the normal on all watersheds. There were few storms and the snowfall was light during March. Bright sunshine and unusual warmth during the greater part of the month melted the snow covering of the higher valleys and unprotected slopes. Melting has not begun, however, at the very high altitudes, and only in a moderate degree in the timber and on the northern slopes.—*F. H. Brandenburg.*

*Nebraska.*—The average temperature for the State was 51.4°, or 7° above that of 1878, which has been the warmest recorded March in the past.—*G. A. Loveland.*

*Iowa.*—There was no appreciable amount of precipitation at most of the stations from February 23 to March 28. The farmers were in the field gathering the remainder of last year's corn crop by the 5th or 7th. The indications are favorable for an increased acreage of oats and corn. Good seed corn is scarce, however, owing to the severe freeze on the 12th and 13th of October last. The observer at Washta reports the greatest loss of bees ever known in that vicinity. More than three-fourths of those wintered outside are dead.—*G. M. Chappel.*

*Kansas.*—Transportation interests had no check and building operations proceeded uninterruptedly. The rivers fell slowly and were low at the end of the month.—*T. B. Jennings.*

*Missouri.*—Owing to extreme dryness forest fires occurred in Webster and adjoining counties; some damage was done to buildings and considerable damage to orchards. The Secretary of the State Board of Agriculture reports that the prospects for peaches is the best that Missouri has had for many years.—*George Reeder.*

*Nebraska–Wyoming, North Platte Project.*—Violent wind storms during the month have done considerable damage to portions of the canal and lateral systems.—*Reclamation Record.*

*Logan, Iowa.*—The upper Boyer River drainage district, embracing the Boyer Valley north of Logan for a distance of 18 miles has been established here by the board of supervisors. The project contemplates straightening the Boyer River at an estimated cost of $130,000.—*The Jackson Sentinel.*

*Bozeman, Mont.*—A big irrigation scheme, which will provide water for 30,000 acres in the vicinity of Willow Creek and Three Forks, in this county, will be pushed to completion this summer. A canal 3 miles in length will carry water from both North and South Willow Creek to a reservoir with a capacity of some 30,000 acre-feet. This reservoir requires the construction of a dam about 70 feet high. A conduction canal 12 miles in length will carry water from the reservoir to the lands to be irrigated.—*Anaconda Standard.*

## THE SHOSHONE RESERVOIR.

By W. S. PALMER, Section Director.

The completion of the Shoshone Dam in Shoshone Canyon which is about 7 miles west of the city of Cody, Wyo., will form a large lake more than 12 miles long and 2 miles wide, extending up both forks of the Shoshone River which divides just above the dam in Shoshone Canyon. The lake will be on the road from Cody to the Yellowstone Park, and the Cody Gateway will be one of the attractions of that most scenic route to Yellowstone Park. The route through the canyon is along the road which had to be literally chiseled out of the solid rock walls of the canyon by the Government engineers before work on the great dam could be commenced. Beyond the canyon the road leads along the north bank of the reservoir which will extend several miles up the North Fork of the Shoshone River, and follows the river to the boundary of the Park which is entered over Sylvan Pass, from which one of the grandest views of the Park can be ob-

tained. Besides serving as an immense reservoir for storing water to reclaim 150,000 acres of desert lands along the lower portion of Shoshone River, the lake will be utilized as a pleasure resort and the ambitious residents of Cody are already planning to make it one of the great pleasure resorts of the West. Summer cottages along the banks of the lake will be erected by many, and hotels, boats, and bath houses will attract summer tourists who may desire a pleasant place to spend all or a portion of their summer. The water of the lake will be stocked with the rainbow trout and the black bass in such numbers as to prove very enticing to anglers in a few years. The lake will be large enough to allow excellent boating.

The river banks below the mouth of the canyon show unmistakable evidence of ancient geyser activity in that section, and here are found the wonderful mineral and sulphur springs, the curative values of which were known to the Indians years ago. They used to gather here to bath in the waters and renew their youth and strength; they called the stream the "Smelling Water," and the early white man of that section gave the name "Stinking Water" to the river which we now know as the Shoshone.

The dam in the canyon has been completed and this, the highest masonry dam in the world, is ready to hold back the flood waters which will come down the stream in the spring. The dam which is 328 feet above bed rock and 246 feet above the bed of the stream is only 200 feet wide on top. The dam could easily be carried much higher, as its top is nowhere near the top of the canyon, but the low banks on the east side of the South Fork of the Shoshone renders a higher dam impracticable.

## WATER SUPPLY FOR THE SHOSHONE PROJECT.

By D. W. COLE, Constructing Engineer.

The Shoshone River has its source in the massive Absarokee Range of the Rocky Mountains. The entire watershed is a very rugged country, elevated from 6,000 to 12,000 feet above the sea. Practically the entire run-off of the stream is derived from the heavy snows deposited in the high mountains. The precipitation from September until June is almost wholly in the form of snow. Rain comes in showers, sometimes very heavy during the months of July and August, but these have very little effect upon the flow of the main stream.

The floods in the river occur in June and July as a result of melting of the snow in the deep ravines of the mountains.

The country is very sparsely inhabited, and the few persons living in this district are quartered along the streams in the lower portions of the watershed. Hence, any stations for measurement of precipitation, located at the usual habitations of men, would give little information as to the actual amounts in the high mountains. To get a correct idea of the precipitation from which the greater portion of the stream yield is derived, the gages would need to be located on the higher ridges of the mountains, where only hunters penetrate at infrequent intervals, and which are practically inaccessible in winter. Unusual and special effort would be required, and expensive methods would be necessary to maintain gage stations where they would throw much light on the subject of precipitation in the mountains.

The general subject of collection of precipitation data in the high mountain areas, where snow is a thing to be measured, is one of world-wide interest, which it appears has not been satisfactorily handled heretofore.

TABLE 1.—*Climatological data for March, 1910. District No. 6, Missouri Valley.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Wyoming.* | | | | | | | | | | | | | | | | | | | | |
| Arapahoe | Fremont | | 2 | | | | | | | | | | | | | | | | | David Malloy. |
| Barnum | Johnson | 5,500 | 5 | | | | | | | | 0.37 | | 0.25 | 0.5 | 2 | 27 | 3 | 1 | w. | Thomas Freegaurd. |
| Basin | Big Horn | 3,862 | 11 | 44.1 | +11.1 | 78 | 23 | 21 | 30 | 12 | 0.11 | − 0.26 | 0.11 | 0.0 | 1 | 25 | 4 | 2 | s. | O. J. Robertson. |
| Bennett | Carbon | | 3 | | | | | | | | | | | | | | | | | Chas. C. Young. |
| Big Creek Station | Albany | | | 38.4 | | 65 | 22† | − 3 | 30 | 47 | 6.41 | | 0.23 | 8.4 | 3 | 21 | 7 | 3 | w. | U. S. Forest Service. |
| Casper | Natrona | 5,101 | 2 | | | | | | | | | | | | | | | | | M. C. Cook. |
| Cheyenne | Laramie | 6,088 | 39 | 44.4 | +11.4 | 73 | 22 | 17 | 30 | 39 | 1.45 | + 0.50 | 1.43 | 14.1 | 3 | 15 | 13 | 3 | nw. | U. S. Weather Bureau. |
| Chugwater | do | 5,282 | 9 | 48.1 | +12.2 | 79 | 22 | 13 | 7 | 52 | 0.60 | − 0.47 | 0.60 | 6.0 | 1 | 28 | 3 | 0 | w. | George Milne. |
| Clark | Big Horn | 4,320 | 4 | 48.8 | | 75 | 22 | 24 | 6 | 35 | 0.41 | | 0.25 | 3.0 | 2 | 14 | 14 | 3 | w. | Chas. A. C. Snow. |
| Cody | do | 5,000 | 3 | 46.0 | | 74 | 20 | 18 | 6 | 42 | 0.19 | | 0.10 | 1.0 | 2 | 22 | 8 | 1 | w. | F. A. Fish. |
| Crystal Lake Reservoir | Laramie | 6,900 | 1 | | | | | | | | | | | | | | | | | Cheyenne City Engineer. |
| Dome Lake | Sheridan | 8,821 | 2 | 32.2 | | 60 | 19 | 5 | 30 | 43 | 0.60 | | 0.40 | 6.0 | 2 | 19 | 10 | 2 | sw. | Chas. Hidlay. |
| Douglas | Converse | 4,793 | 1 | | | | | | | | | | | | | | | | | Henry C. Miller. |
| Dubois | Fremont | 6,909 | 3 | 39.5 | | 64 | 21† | 21 | 11 | 42 | 0.18 | | 0.12 | 2.4 | 2 | 20 | 9 | 2 | w. | Dr. F. H. Welty. |
| Eaton's Ranch | Sheridan | 4,600 | 5 | 52.2[b] | | 79[b] | 20 | 28[b] | 24 | 36[b] | 0.40[b] | | 0.20[b] | 2.0[b] | 3[b] | 20[b] | 9[b] | 0[b] | w.[b] | F. A. Eaton. |
| Echeta | Crook | 4,200 | 1 | | | | | | | | 0.21 | | 0.21 | | 1 | 24 | 5 | 2 | n. | M. R. Hunter. |
| Elk Mountain | Carbon | | 5 | | | | | | | | 0.34 | | 0.26 | 6.5 | 2 | | | | | Wm. Richardson. |
| Encampment | do | 7,322 | 1 | 39.3[c] | | | | − 3[c] | 30 | | 0.35[c] | | 0.23[c] | | 2[c] | 20[c] | 6[c] | 0[c] | sw.[c] | U. S. Forest Service. |
| Ervay | Natrona | | 1 | 43.0 | | 77 | 21 | 15 | 9 | 37 | 0.42 | | 0.30 | 4.5 | 3 | 19 | 7 | 5 | sw. | Frank Jameson. |
| Fort Laramie | Laramie | 4,270 | 32 | 47.8 | +12.7 | 79 | 21 | 13 | 10 | 49 | 0.14 | − 0.53 | 0.12 | 2.0 | 2 | 25 | 4 | 2 | w. | John Hunton. |
| Fox Creek Station | Albany | | | | | | | | | | | | | | | | | | | U. S. Forest Service. |
| Gillette | Crook | 4,546 | 3 | 47.5 | | 79 | 22 | 19 | 30 | 38 | 0.10 | | 0.10 | 1.0 | 1 | 24 | 5 | 2 | | S. D. Perry. |
| Granite Canyon | Laramie | 7,337 | 5 | | | | | | | | | | | | | | | | | Lee A. Boyce. |
| Hunters' Station | Johnson | 8,000 | 4 | 36.7 | | 63 | 22† | 6 | 7 | 45 | 0.32 | | 0.24 | 2.0 | 2 | 27 | 0 | 4 | w. | U. S. Forest Service. |
| Hyattville | Big Horn | 4,632 | 11 | 46.2 | +10.2 | 79 | 21 | 16 | 30 | 42 | | | | | | 20 | 5 | 6 | w. | Wm. Booth. |
| Kirtley | Converse | | 6 | 45.6 | +11.2 | 78 | 22 | 18 | 30 | 42 | 0.47 | − 0.32 | 0.30 | 7.5 | 2 | 25 | 5 | 1 | sw. | D. M. Zum Brunnen. |
| Kirwin | Big Horn | 9,187 | 2 | | | | | | | | | | | | | | | | | C. L. Tewksbury. |
| Knowles | Crook | | 1 | | | | | | | | 1.03 | | 0.69 | 5.5 | 3 | | | | | G. A. Knowles. |
| Lander | Fremont | 5,372 | 18 | 43.0 | +11.7 | 71 | 20 | 18 | 30 | 40 | 0.59 | − 1.01 | 0.47 | 2.7 | 3 | 15 | 12 | 4 | sw. | U. S. Weather Bureau. |
| Laramie | Albany | 7,188 | 19 | 39.6 | +10.2 | 68 | 21† | 8 | 30 | 47 | 0.33 | − 0.46 | 0.30 | 3.3 | 2 | 20 | 6 | 5 | sw. | University of Wyoming. |
| Leo | do | 6,878 | 9 | 40.2 | + 9.3 | 68 | 21† | 0 | 30 | 46 | 0.26 | − 0.56 | 0.18 | 2.5 | 3 | 21 | 7 | 3 | w. | C. A. Cowdin. |
| Lolobama Ranch | Big Horn | 7,052 | 6 | 38.0 | + 8.1 | 64 | 20 | 17 | 11 | 37 | | | | | | 17 | 12 | 2 | w. | Mary E. Painter. |
| Lovell | do | | 5 | 45.6 | | 78 | 22 | 22 | 11† | 47 | 0.28 | | 0.15 | 0.0 | 3 | 14 | 13 | 4 | n. | R. Fred Harrison. |
| Lusk | Converse | 5,007 | 20 | | | | | | | | 0.90 | | 0.60 | 9.0 | | | | | | D. E. Goddard. |
| Luther | Laramie | | 1 | 45.7[c] | | 76[c] | 23 | 13[c] | 30 | 44[c] | 1.25[c] | | 1.20[c] | 12.0[c] | 1[c] | | | | nw.[c] | Henry D. Colburn. |
| Manville | Converse | 5,050 | 1 | | | | | | | | 1.13 | | 0.70 | 6.0 | 3 | 26 | 3 | 2 | w. | C. A. Sherman. |
| Moorcroft | Crook | 4,211 | 7 | 44.4 | +10.6 | 80 | 22† | 18 | 6 | 49 | 0.10 | − 0.86 | 0.10 | 1.0 | 1 | 21 | 6 | 4 | nw. | James K. Somers. |
| Moore | Albany | 6,000 | 9 | 45.2[a] | + 9.8 | 75[a] | 22 | 19[a] | 7 | 43[a] | 0.03[a] | − 0.70[a] | 0.03[a] | 0.4[a] | 1[a] | 11[a] | 7[a] | 6[a] | w.[a] | Edwin Moore. |
| Newcastle | Weston | 4,319 | 3 | 47.2 | | 82 | 22 | 18 | 9 | 42 | 0.65 | | 0.35 | 3.0 | 2 | 24 | 5 | 2 | nw. | Dr. S. W. Johnson. |
| Pathfinder | Natrona | 5,735 | 4 | 44.6 | +10.1 | 71 | 22 | 18 | 30 | 42 | 0.33 | − 0.28 | 0.19 | 5.0 | 3 | 21 | 7 | 3 | sw. | U. S. Reclamation Service. |
| Phillips | Laramie | 4,900 | 7 | 47.0 | + 9.3 | 80 | 23 | 8 | 29 | 51 | 0.80 | − 0.02 | 0.80 | 8.0 | 1 | 26 | 3 | 2 | w. | Mrs. Arthur Rugg |
| Pine Bluff | do | 5,038 | 9 | | | | | | | | | | | | | | | | | Sumner Miller. |
| Powell | Big Horn | 4,376 | 3 | 45.4 | | 78 | 20 | 18 | 30 | 45 | 0.05 | | 0.05 | 0.0 | 1 | 18 | 12 | 1 | w. | U. S. Reclamation Service. |
| Rawlins | Carbon | 6,748 | 8 | 42.7 | +11.3 | 65 | 21 | 18 | 30 | 27 | 0.16 | − 0.96 | 0.10 | 1.2 | 3 | 20 | 8 | 3 | w. | C. J. Ehrenfeld. |
| Riverton | Big Horn | 4,969 | 2 | 40.1[a] | | 75[a] | 26 | 17[a] | 25 | 46[a] | | | | | | | | | | Fred L. McGiffin. |
| Saratoga | Carbon | 7,300 | 12 | 41.6 | +10.5 | 71 | 21 | 5 | 30 | 45 | 0.10 | − 1.58 | 0.10 | 2.0 | 1 | 18 | 8 | 5 | e. | Saratoga & Enc'pm'nt Ry. |
| Sheridan | Sheridan | 3,790 | 15 | 45.2 | +13.9 | 78 | 22 | 22 | 6 | 46 | 0.36 | − 0.96 | 0.35 | T. | 2 | 15 | 12 | 4 | nw. | U. S. Weather Bureau. |
| Shoshone Dam | Big Horn | 5,385 | 4 | 48.7 | | 74 | 18 | 23 | 6 | 36 | T. | | T. | 0.0 | 0 | 27 | 1 | 2 | w. | U. S. Reclamation Service. |
| Soldiers Home | Johnson | 4,635 | 18 | 45.0 | +12.0 | 75 | 22† | 19 | 6 | 41 | 0.08 | − 0.65 | 0.05 | 0.5 | 2 | 12 | 17 | 2 | sw. | Geo. L. Courtney. |
| South Pass City | Fremont | 7,873 | 8 | 31.6 | | 58 | 21 | 0 | 30 | 42 | 0.99 | | 0.51 | 10.0 | 3 | 22 | 2 | 7 | sw. | John Sherlock. |
| Thermopolis | do | 4,350 | 6 | 46.0 | | 78 | 22 | 19 | 30 | 49 | 0.50 | | 0.36 | T. | 2 | 24 | 5 | 2 | sw. | A. L. Duhig. |
| Upton | Weston | | 1 | | | | | | | | 0.25 | | 0.16 | 7.0 | 2 | 26 | 2 | 3 | | G. E. McPherren. |
| Valley | Big Horn | 6,500 | 1 | | | | | | | | 0.04 | | 0.02 | 1.8 | 3 | 21 | 9 | 1 | w. | Jas. L. McLaughlin. |
| Verona | Sheridan | | 1 | | | | | | | | T. | | T. | 0.0 | 0 | 9 | 21 | 1 | se. | O. A. Roode. |
| Wiley | Big Horn | 5,375 | 1 | 46.0 | | 73 | 20 | 18 | 6 | 39 | 0.45 | | 0.20 | T. | 3 | 24 | 5 | 2 | w. | C. D. Marshall. |
| Wyncote | Laramie | 4,207 | 3 | 48.6 | | 83 | 22 | 14 | 10 | 53 | 0.63 | | 0.62 | 3.0 | 2 | 21 | 9 | 1 | w. | U. S. Reclamation Service. |
| Yellowstone Park | National Park | 6,300 | 22 | 38.0 | +11.5 | 62 | 20 | 16 | 30 | 35 | 0.82 | − 1.36 | 0.45 | 5.9 | 11 | 8 | 14 | 9 | s. | U. S. Weather Bureau. |
| (1) Fountain Hotel | do | 7,220 | 4 | | | | | | | | | | | | | | | | | U. S. Army. |
| (2) Grand Canyon | do | 7,900 | 3 | | | | | − 6 | 11 | | 1.12 | | 0.60 | | 5 | 9 | 20 | 2 | w. | Do. |
| (3) Lake Hotel | do | 7,733 | 6 | 37.9 | | 53 | 20 | − 7 | 30 | 51 | 1.19 | | 0.39 | 14.5 | 8 | 11 | 2 | 18 | s. | Do. |
| (4) Norris Gey. Basin | do | 7,525 | 6 | 30.8 | | 56 | 20† | − 2 | 30 | 53 | 0.50 | | 0.20 | | 3 | 23 | 2 | 6 | w. | Do. |
| (5) Riverside | do | 6,500 | 4 | | | | | | | | | | | | | | | | | Do. |
| (6) Soda Butte | do | 7,000 | 5 | 32.9 | | 61 | 20 | 1 | 11 | 47 | 0.93 | | 0.40 | 7.5 | 4 | 20 | 6 | 5 | w. | Do. |
| (7) Sylvan Pass | do | 7,000 | 3 | | | | | | | | 0.80 | | 0.23 | 7.0 | 5 | 22 | 1 | 8 | w. | Do. |
| (8) Thumb | do | 7,772 | 4 | 30.6 | | 56 | 20 | 2 | 30† | 46 | 1.05 | | 0.34 | 9.5 | 6 | 18 | 9 | 4 | w. | Do. |
| (9) Tower Falls | do | 6,250 | 1 | 36.1 | | 61 | 20 | 7 | 11 | 46 | 0.06 | | 0.03 | 0.0 | 3 | 20 | 4 | 7 | sw. | Do. |
| (10) Upper Gey. Basin | do | 7,395 | 6 | | | | | | | | | | | | | | | | | Do. |
| *Montana.* | | | | | | | | | | | | | | | | | | | | |
| Adams | Dawson | | 2 | 43.9 | | 84 | 22 | 10 | 1 | 43 | 1.51 | | 1.17 | T. | 4 | 17 | 10 | 4 | nw. | W. B. Ennis. |
| Adel | Cascade | 5,200 | 11 | 43.0 | +14.5 | 70 | 20 | 30 | 5 | 35 | 0.23 | − 1.05 | 0.20 | 2.0 | 2 | 19 | 9 | 3 | w. | Bessie F. Burch. |
| Agricultural College | Gallatin | 4,700 | 12 | 42.4 | +11.9 | 69 | 20 | 19 | 6 | 32 | 0.62 | − 0.65 | 0.49 | 2.5 | 3 | 12 | 17 | 2 | sw. | J. L. McCraw. |
| Augusta | Lewis & Clark | 4,371 | 12 | 42.6 | +13.8 | 75 | 26 | 11 | 7 | 49 | T. | − 1.28 | T. | 0.0 | 0 | 21 | 10 | 0 | w. | C. C. Covington. |
| Babb | Teton | 4,461 | 4 | 39.2 | | 64 | 15 | 14 | 1 | 41 | 1.69 | | 1.55 | 4.5 | 2 | 15 | 13 | 3 | sw. | U. S. Reclamation Service. |
| Bald Butte | Lewis & Clark | 6,500 | | | | | | | | | 0.41 | | 0.12 | 5.2 | 7 | 16 | 8 | 7 | | Matt W. Alderson. |
| Big Creek | Park | 5,800 | 2 | | | | | | | | 0.70 | | 0.25 | | 4 | 6 | 19 | 6 | s. | Peter Vink. |
| Big Timber | Sweetgrass | 4,072 | 5 | 50.0 | | 78 | 1 | 22 | 25 | 45 | | | | 2.0 | | 20 | 10 | 1 | w. | W. H. Patterson. |
| Big Timber Creek | do | | | | | | | | | | 0.46 | | 0.30 | | 3 | 14 | 17 | 0 | w. | Do. |
| Billings | Yellowstone | 3,115 | 15 | 47.1 | +12.2 | 82 | 20† | 18 | 30 | 50 | 0.05 | − 0.90 | 0.05 | | 1 | | | | w. | U. S. Weather Bureau. |
| Boulder Nourserv | Jefferson | 4,920 | 14 | 36.9[a] | + 8.1 | 59[a] | 17 | 10[a] | 9 | 41[a] | T. | − 0.46 | T. | T. | 0 | 13[a] | 9[a] | 2[a] | | U. S. Forest Service. |
| Bowen | Beaverhead | 6,060 | 4 | 27.6 | | 47 | 21 | − 6 | 6 | 40 | 0.81 | | 0.16 | 3.3 | 9 | 17 | 9 | 5 | | B. B. Lawrence. |
| Bridger | Carbon | 3,664 | 2 | 47.5[c] | | 79[c] | 22 | 10[c] | 6 | 58[c] | 0.11 | | 0.11 | 0.0 | 1 | 12[c] | 10[c] | 6[c] | s. | L. E. Gard. |
| Broadview Exp. Station | Yellowstone | | 4 | 43.0 | | 78 | 22 | 17 | 30 | 49 | 0.25 | | 0.25 | 0.1 | 1 | 15 | 16 | 0 | w. | Thos. S. Hunt. |
| Busby | Rosebud | | 5 | 44.1 | | 82 | 22 | 17 | 1† | 50 | 0.53 | | 0.49 | 0.5 | 2 | 17 | 9 | 5 | w. | G. A. Linschied. |
| Busteed | Sweetgrass | | 2 | 45.3 | | 76 | 20 | 15 | 6 | 44 | 0.06 | | 0.03 | T. | 3 | 15 | 11 | 5 | w. | Thos. H. Busteed. |
| Butte | Silver Bow | 5,716 | 15 | 42.8 | +12.4 | 65 | 19† | 21 | 25 | 31 | 0.75 | − 0.32 | 0.35 | | 3 | 17 | 7 | 7 | w. | J. R. Warton. |
| Canyon Ferry | Lewis & Clark | 3,644 | 12 | 43.8 | +10.3 | 73 | 20 | 19 | 25 | 39 | 0.05 | − 0.58 | 0.04 | 0.0 | 2 | 19 | 11 | 1 | nw. | A. C. Pratt. |
| Cascade | Cascade | 3,361 | 5 | 47.4 | | 76 | 20 | 18 | 26 | 49 | 0.14 | | 0.10 | 0.7 | 3 | 25 | 6 | 0 | sw. | E. E. James. |
| Cataract Creek | Jefferson | 7,000 | | | | | | | | | | | | | | | | | | Fred Gerdes. |
| Chessman Reservoir | Lewis & Clark | 5,275 | 2 | 37.5 | | 61 | 20 | 9 | 6 | 37 | 0.10 | | 0.04 | 1.2 | 3 | 26 | 1 | 4 | sw. | Chas. D. Schmidt. |
| Chester | Chouteau | 3,140 | 7 | | | | | | | | | | | | | | | | | B. B. Weldy. |
| Chinook | do | 2,502 | 10 | 44.8[c] | +20.0 | 74[c] | 21† | 8[c] | 1 | 44[c] | T. | − 0.45 | T. | T. | 0 | 12[c] | 14[c] | 2[c] | w. | Thos. O'Hanlon Co. |
| Chouteau | Teton | 3,810 | 6 | 44.6[c] | | 82[c] | 21 | 12[c] | 1 | 54[c] | 0.00 | | 0.00 | 0.0 | 0 | 11[c] | 8[c] | 7[c] | | H. Van De Riet. |
| Clear Creek | Chouteau | | 4 | 44.8[a] | | 76[a] | 20 | 20[a] | 1† | 35[a] | T. | | T. | | 0 | 21[b] | 6[b] | 2[b] | w. | Cortez Sedgwick. |
| Clemons | Lewis & Clark | 4,672 | | | | | | | | | 0.30 | | 0.12 | 1.5 | 5 | 16 | 10 | 5 | w. | Frank Eberl. |
| Copper | Meagher | | 5 | | | | | | | | | | | | | | | | | Orville Harris. |
| Crow Agency | Rosebud | 3,041 | 28 | 46.4 | +13.2 | 81 | 22 | 18 | 30 | 46 | 0.46 | − 0.48 | 0.36 | 0.0 | 3 | 22 | 5 | 4 | nw. | F. E. Server. |
| Culbertson | Valley | 1,927 | 8 | | | | | | | | | | | | | | | | | G. H. Coulter. |

TABLE 1.—*Climatological data for March, 1910. District No. 6*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Montana*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Cut Bank | Teton | 3,700 | 12 | 43.0 | +17.6 | 72 | 20 | 11 | 1 | 49 | T. | − 1.10 | T. | 0.0 | 0 | 18 | 10 | 3 | w. | Chas. N. Thomas. |
| Decker | Rosebud | 3,400 | 6 | 44.6 | ..... | 70 | 11 | 24 | 3 | 35 | 0.50 | ..... | 0.50 | 0.6 | 1 | ..... | ..... | ..... | ..... | Adam Anderson. |
| Delpine | Meagher | 5,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.05 | ..... | 0.03 | 0.6 | 3 | 18 | 12 | 1 | w. | T. B. Holliday. |
| Denton | Fergus | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | R. M. Chamberlain. |
| Dillon | Beaverhead | 5,147 | 13 | 41.6 | + 8.2 | 74 | 14 | 20 | 29† | 48 | 0.31 | − 1.18 | 0.20 | 2.0 | 3 | 16 | 10 | 5 | sw. | J. E. Monroe. |
| Dirty Creek | Meagher | 6,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | T. | 0 | 22 | 8 | 1 | w. | Lewis Cameron. |
| Dry Creek | Broadwater | 5,500 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. C. Stuart. |
| Dry Wolf Camp | Cascade | 6,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.08 | ..... | 0.05 | 4.5 | 2 | 18 | 8 | 5 | sw. | Mrs. R. J. Eveleth. |
| East Gallatin River | Gallatin | 6,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.52 | ..... | 0.25 | 7.0 | 4 | 15 | 14 | 2 | w. | John Eberhart. |
| Ekalaka | Custer | ..... | 10 | 47.4° | +16.4 | 83° | 22 | 19° | 29 | 47° | 0.90 | ..... | 0.52 | 0.0 | 4 | 19° | 5° | 2° | ..... | Wm. Freese. |
| Elkhorn | Jefferson | 6,576 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.22 | ..... | ●.06 | 4.0 | 6 | 12 | 14 | 5 | sw. | James Heagan. |
| Evans | Cascade | 4,900 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | H. Tharsher. |
| Fallon | Custer | 2,208 | 6 | 43.8 | ..... | 87 | 22 | 15 | 1 | 51 | 1.10 | ..... | 0.88 | 0.0 | 3 | 22 | 6 | 3 | w. | Mrs. A. C. Gifford |
| Family§ | Teton | 3,950 | 1 | 43.0 | ..... | 71 | 21 | 18 | 26 | 41 | 0.02 | ..... | 0.02 | 0.1 | 1 | 22 | 9 | 0 | w. | U. S. Reclamation Service. |
| Fish Creek**§ | Silver Bow | 8,500 | ..... | 34.8 | ..... | 52 | 18† | 10 | 29 | 28 | 1.40 | ..... | 1.00 | 9.8 | 3 | 22 | 3 | 6 | w. | O. B. Tilton. |
| Fish Tail Creek | Carbon | 5,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.03 | ..... | 0.03 | 0.0 | 1 | 25 | 6 | 0 | w. | O. E. Haskin. |
| Flathead Creek | Gallatin | 6,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.87 | ..... | 0.25 | 5.5 | 5 | 13 | 14 | 4 | nw. | L. G. Brown. |
| Forsyth | Rosebud | 2,514 | 4 | 48.0 | ..... | 87 | 21 | 21 | 7 | 50 | 0.22 | ..... | 0.22 | T. | 1 | 20 | 3 | 8 | e. | W. F. Clarke. |
| Fort Benton | Chouteau | 2,630 | 33 | 47.8 | +16.6 | 80 | 21† | 18 | 1 | 44 | 0.00 | − 0.58 | 0.00 | 0.0 | 0 | 22 | 9 | 0 | sw. | Jere Sullivan. |
| Fort Shaw | Cascade | 3,500 | 22 | 45.8 | +12.7 | 75 | 20† | 19 | 25 | 45 | T. | − 0.43 | T. | T. | 0 | 28 | 3 | 0 | sw. | U. S. Reclamation Service. |
| Fort W. H. Harrison§ | Lewis & Clark | 4,004 | 6 | 43.0 | ..... | 74 | 20 | 21 | 6 | 38 | ..... | ..... | ..... | ..... | ..... | 16 | 14 | 1 | w. | Post Hospital. |
| Foster | Yellowstone | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | E. K. Bowman. |
| Garneil | Fergus | 5,503 | 1 | 37.7 | ..... | 66 | 22 | 15 | 6 | 32 | 0.26 | ..... | 0.20 | 4.0 | 2 | 7 | 21 | 3 | sw. | Thos. E. Scally. |
| Glendive | Dawson | 2,069 | 20 | 45.0 | +18.1 | 85 | 22 | 12 | 1 | 42 | 0.85 | − 0.30 | 0.81 | 0.0 | 2 | 10 | 20 | 1 | sw. | W. B. Walker. |
| Goldbutte | Chouteau | ..... | 3 | 42.0 | ..... | 75 | 20 | 9 | 1 | 40 | 0.09 | ..... | 0.09 | 0.0 | 1 | 20 | 7 | 4 | w. | J. T. Berthelote. |
| Graham | Custer | ..... | 4 | 47.0 | ..... | 85 | 22 | 21 | 7 | 47 | 0.22 | ..... | 0.10 | T. | 3 | 20 | 8 | 3 | nw. | J. S. Rue. |
| Grayling | Gallatin | 6,700 | 4 | 30.6 | ..... | 57 | 19 | − 3 | 11 | 50 | 0.13 | ..... | 0.13 | 2.3 | 1 | 14 | 5 | 12 | s. | P. Kersenmacher. |
| Great Falls | Cascade | 3,350 | 19 | 46.9 | +13.7 | 73 | 20 | 22 | 6 | 39 | 0.27 | − 0.53 | 0.12 | 1.8 | 4 | 14 | 17 | 0 | sw. | S. H. Bauman. |
| Half Moon Pass | Fergus | 6,500 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Thos. Stigen. |
| Half Way House | Broadwater | 6,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.57 | ..... | 0.19 | 3.1 | 7 | 16 | 14 | 1 | sw. | Gordon Deans. |
| Harlowton | Meagher | 4,165 | 2 | 42.0 | ..... | 74 | 20 | 21 | 14† | 45 | 0.00 | ..... | 0.00 | 0.0 | 0 | 9 | 14 | 8 | w. | Joseph Muir. |
| Hassel | Broadwater | 5,200 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | ..... | 0 | 0 | 30 | 1 | sw. | E. C. Albrecht. |
| Havre | Chouteau | 2,505 | 30 | 44.7 | +17.4 | 77 | 20 | 13 | 1 | 41 | 0.33 | − 0.15 | 0.20 | 3.0 | 3 | 17 | 11 | 3 | sw. | U. S. Weather Bureau. |
| Helena | Lewis & Clark | 4,110 | 30 | 45.0 | +14.0 | 71 | 20 | 20 | 6 | 33 | 0.04 | − 0.70 | 0.02 | 0.1 | 3 | 14 | 12 | 5 | w. | Do. |
| Highwood | Chouteau | ..... | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.03 | ..... | 0.02 | 0.4 | 2 | 18 | 7 | 6 | sw. | W. S. McCord. |
| Home Park | Madison | ..... | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.42 | ..... | 0.38 | 5.0 | 2 | 23 | 6 | 2 | s. | H. L. Miller. |
| Huntley | Yellowstone | 3,014 | 4 | 48.0 | ..... | 80 | 20† | 23 | 30 | 48 | 0.55 | ..... | 0.55 | ..... | 1 | 9 | 22 | 0 | nw. | U. S. Reclamation Service. |
| Jones Canyon | Gallatin | 6,800 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.60 | ..... | 0.36 | 7.0 | 2 | 15 | 2 | 14 | w. | Jas. McCune. |
| Jordon | Dawson | ..... | 5 | 43.4 | ..... | 81 | 22 | 13 | 1 | 51 | 1.00 | ..... | 0.70 | 0.0 | 3 | 25 | 0 | 6 | ..... | W. C. Hendesron. |
| Kleinsmith Creek | Jefferson | 6,000 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.44 | ..... | 0.20 | 7.0 | 5 | 8 | 22 | 1 | w. | Mrs. E. W. Mills. |
| Lewistown | Fergus | 4,010 | 13 | 43.6 | +13.8 | 77 | 20 | 17 | 6 | 43 | 0.25 | − 1.07 | 0.22 | 0.2 | 2 | 19 | 10 | 2 | w. | W. W. Watson. |
| Livingston | Park | 4,488 | 13 | 47.0 | +14.1 | 75 | 20 | 24 | 25 | 40 | 0.12 | − 0.70 | 0.08 | T. | 3 | 17 | 6 | 8 | sw. | Lewis Terwilliger. |
| Lodge Pole Creek | Sweetgrass | 5,700 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | F. G. White. |
| Lone Tree | Chouteau | ..... | 5 | 48.9° | ..... | 77° | 20 | 20° | 1 | 41° | 0.00 | ..... | 0.00 | 0.0 | 0 | 26 | 2 | 3 | w. | E. Wilson. |
| Lost Horse Creek | Meagher | 5,800 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.13 | ..... | 0.09 | 1.8 | 3 | 18 | 10 | 3 | w. | C. M. Mason. |
| Malta | Valley | 2,240 | 3 | 43.8 | ..... | 80 | 22 | 2 | 1 | 46 | 0.42 | ..... | 0.20 | T. | 3 | 21 | 8 | 2 | w. | U. S. Reclamation Service. |
| Meadow Creek | Madison | 6,700 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | F. E. Parent. |
| Melstone | Fergus | 2,903 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.84 | ..... | 0.55 | 0.5 | 4 | ..... | ..... | ..... | ..... | E. J. Parkinson. |
| Mildred | Custer | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.59 | ..... | 0.98 | T. | 3 | 23 | 7 | 1 | sw. | Leon B. Clarke. |
| Miles City | do | 2,371 | 19 | 48.2 | +19.6 | 88 | 22 | 24 | 1 | 42 | 1.75 | + 0.99 | 0.70 | 5.2 | 5 | 14 | 13 | 4 | sw. | U. S. Weather Bureau. |
| Mill Creek | Park | 5,500 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.18 | ..... | 0.13 | ..... | 2 | 22 | 8 | 1 | sw. | W. H. Edick. |
| Moore | Fergus | ..... | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.10 | ..... | 0.10 | T. | 1 | 18 | 13 | 0 | w. | Clyde Grove. |
| Mudd Creek | Deer Lodge | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Emory Mudd. |
| Norris | Madison | 4,845 | 4 | 44.9 | ..... | 69 | 19† | 10 | 25 | 47 | 0.35 | ..... | 0.12 | 1.1 | 4 | 14 | 11 | 6 | s. | Madison River Power Co. |
| Nye | Sweetgrass | ..... | 2 | 41.6 | ..... | 67 | 19† | 13 | 25 | 37 | 0.08 | ..... | 0.04 | 3.0 | 2 | 24 | 1 | 6 | sw. | F. L. Bryant. |
| Olsen Creek | Jefferson | 6,345 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.37 | ..... | 0.16 | 7.6 | 7 | 18 | 9 | 4 | w. | Robt. Olsen. |
| Pipestone Pass | do | 7,000 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.43 | ..... | 0.25 | 6.5 | 5 | 13 | 16 | 2 | w. | Mrs. Theola Kiermeyer. |
| Poplar | Valley | 2,020 | 25 | 41.8° | +18.4 | 84 | 22 | 0° | 1 | 50° | 1.95 | + 0.95 | 1.50 | 0.0 | 2 | 29 | 0 | 2 | w. | H. M. Cozier. |
| Raymond | Teton | 4,260 | ..... | 44.4° | ..... | 75° | 19 | 14 | 8 | 45° | 0.03 | ..... | 0.03 | ..... | 1 | 20 | 10 | 1 | w. | W. H. Campbell. |
| Red Lodge | Carbon | 5,548 | 10 | 42.0 | +14.0 | 71 | 20 | 17 | 30 | 42 | 0.20 | − 1.69 | 0.16 | 2.5 | 2 | 17 | 11 | 3 | se. | I. A. Draper. |
| Reese Creek | Gallatin | 5,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.38 | ..... | 0.26 | 5.0 | 2 | 17 | 6 | 8 | ..... | Henry Cramer. |
| Renova | Jefferson | 4,383 | 11 | 44.6 | +10.0 | 74 | 19 | 16 | 25 | 47 | 0.16 | − 0.42 | 0.11 | T. | 3 | 24 | 4 | 3 | sw. | F. B. Elmer. |
| Rimini | Lewis & Clark | 7,900 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.92 | ..... | 0.32 | 6.7 | 7 | 18 | 5 | 8 | sw. | Milo Brooks. |
| Ryegate | Yellowstone | 3,640 | 1 | 43.7 | ..... | 76 | 20 | 17 | 25 | 49 | 0.15 | ..... | 0.15 | 0.0 | 1 | 23† | 0† | 2† | w. | H. W. Scherfenberg. |
| Sedan | Gallatin | 3,155 | 2 | 40.4 | ..... | 66 | 20 | 18 | 25 | 36 | 0.09 | ..... | 0.08 | 2.7 | 2 | 12 | 17 | 2 | w. | Jas. Woosley. |
| Springbrook | Dawson | ..... | 9 | 45.0 | ..... | 85 | 22 | 20 | 1 | 42 | 1.12 | ..... | 0.58 | 6.0 | 4 | 13 | 13 | 5 | sw. | Mrs. H. L. Miller. |
| Stearns | Lewis & Clark | 4,500 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 23 | 0 | 8 | w. | J. W. Hardgrove. |
| Three Forks | Gallatin | 4,066 | ..... | 46.6 | ..... | 74 | 20† | 20 | 5 | 47 | 0.34 | ..... | 0.25 | ..... | 2 | 23 | 3 | 5 | sw. | A. A. Adams |
| Tokna§ | Dawson | 2,050 | 5 | 43.7 | ..... | 87 | 22 | 9 | 1 | 47 | 1.21 | ..... | 0.96 | 0.0 | 3 | 21 | 8 | 2 | ..... | U. S. Reclamation Service. |
| Townsend | Broadwater | 3,790 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | River Observer. |
| Trail Creek | Park | 6,000 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.69 | ..... | 0.19 | 5.1 | 6 | 23 | 5 | 3 | w. | Andrew Wiedenbauer. |
| Utica | Fergus | 5,000 | 16 | 44.8 | +15.6 | 73 | 20 | 17 | 6 | 39 | 0.00 | − 0.73 | 0.00 | 0.0 | 0 | 30 | 1 | 0 | w. | P. W. Korell. |
| Valentine | do | ..... | 4 | 45.3 | ..... | 80 | 20 | 7 | 1 | 50 | 0.17 | ..... | 0.09 | ..... | 3 | 20 | 8 | 3 | w. | B. M. Bean. |
| Virginia City | Madison | 5,880 | 22 | 41.2 | +12.0 | 66 | 14 | 18 | 29 | 33 | 0.30 | − 0.84 | 0.12 | 4.0 | 5 | 14 | 12 | 5 | w. | M. Mailand. |
| Wall Rock Mountain | Broadwater | 5,600 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.25 | ..... | 0.09 | 3.0 | 3 | 20 | 11 | 0 | ..... | D. L. Doig. |
| Warm Springs Creek | Madison | 7,500 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.91 | ..... | 0.45 | 6.9 | 10 | 11 | 7 | 13 | w. | M. D. Lytle. |
| West Rosebud Creek | Carbon | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.15 | ..... | 0.15 | 3.0 | 1 | 15 | 12 | 4 | ..... | C. P. Whitten. |
| Willow Creek | Park | 9,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.58 | ..... | 0.21 | 5.1 | 5 | 10 | 20 | 1 | w. | John Topp. |
| Wolf Creek | Lewis & Clark | 4,000 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | A. W. Verharen. |
| Wolf Point | Valley | 1,995 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | River Observer. |
| Woodville | Jefferson | 6,376 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.58 | ..... | 0.24 | 9.0 | 5 | 17 | 12 | 2 | sw. | Anna Kinman. |
| *North Dakota.* | | | | | | | | | | | | | | | | | | | | |
| Aplin | Oliver | ..... | 3 | 41.4° | ..... | 87° | 22 | 1° | 1 | 47° | 2.05 | ..... | 1.38 | 0.0 | 3 | 22 | 8 | 1 | w. | J. B. Hagelbarger. |
| Beach | Billings | 2,759 | 3 | 41.8° | ..... | 84° | 22 | 6° | 7 | 49° | 1.19 | ..... | 0.48 | ..... | 5 | ..... | ..... | ..... | sw. | D. J. Steiner. |
| Berthold Agency | McLean | 2,082 | 13 | 42.6 | +18.8 | 87 | 22 | 2 | 1 | 51 | 1.44 | + 0.62 | 1.03 | 0.0 | 2 | 24 | 4 | 3 | nw. | C. L. Hall. |
| Bismarck | Burleigh | 1,674 | 35 | 43.2 | +21.1 | 81 | 22 | 8 | 1 | 40 | 0.54 | − 0.50 | 0.50 | T. | 4 | 15 | 13 | 3 | nw. | U. S. Weather Bureau. |
| Broncho | Mercer | ..... | 2 | 40.9 | ..... | 85 | 21 | − 7 | 1 | 63 | 0.68 | ..... | 0.43 | 0.0 | 2 | 5 | 25 | 1 | nw. | E. M. Walker. |
| Buford | Williams | 1,944 | 4 | 43.4° | ..... | 85° | 22 | 0° | 1 | 45° | 1.18 | ..... | 0.52 | 0.0 | 3 | ..... | ..... | ..... | sw. | G. O. Sanford. |
| Coal Harbor | McLean | 1,901 | 13 | 40.5† | +21.0 | 83† | 22 | 5† | 1 | 49† | 1.80 | + 0.63 | 1.00 | 0.0 | 2 | ..... | ..... | ..... | ..... | F. H. Childs. |
| Dickinson | Stark | 2,453 | 17 | 41.0 | +17.4 | 85 | 22 | 8 | 1 | 43 | 0.82 | − 0.15 | 0.54 | T. | 4 | 16 | 11 | 4 | nw. | L. R. Waldron. |
| Edgeley | Lamoure | 1,468 | 8 | 42.8 | +16.7 | 86 | 23 | 10 | 1 | 41 | 1.20 | − 0.18 | 0.86 | 0.0 | 3 | 20 | 7 | 4 | nw. | O. A. Thompson. |
| Ellendale | Dickey | 1,449 | 17 | 43.2 | +17.6 | 87 | 23 | 8 | 1 | 46 | 1.16 | − 0.23 | 0.84 | ..... | 2 | 13 | 6 | 12 | s. | U. S. Weather Bureau. |
| Epping | Williams | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.40 | ..... | 0.70 | 0.0 | 5 | 22 | 6 | 3 | nw. | J. C. Wilson. |
| Fullerton | Dickey | 1,439 | 11 | 41.6 | +17.7 | 84 | 23 | 15 | 1 | 45 | 1.83 | − 0.26 | 1.48 | 2.0 | 2 | 25 | 3 | 3 | s. | F. O. Alin. |
| Haley | Bowman | ..... | 2 | 49.6 | ..... | 86 | 22 | 32 | 1† | 26 | 0.92 | ..... | 0.46 | T. | 3 | 21 | 8 | 2 | nw. | A. M. Oberchain. |
| Hettinger | Adams | 2,253 | 3 | 48.8 | ..... | 86 | 22 | 20 | 1 | 35 | 0.07 | ..... | 0.05 | T. | 2 | 3 | 26 | 2 | nw. | F. E. Ellickson. |
| Howard | Williams | 2,275 | 3 | 38.0 | ..... | 82 | 22 | − 1 | 1 | 44 | 1.50 | ..... | 0.90 | T. | 5 | 21 | 5 | 5 | sw. | C. P. Amsbaugh. |

TABLE 1.—*Climatological data for March, 1910. District No. 6*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *North Dakota*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Jamestown | Stutsman | 1,390 | 22 | 40.4 | +19.3 | 85 | 23 | 9 | 1 | 42 | 1.53 | + 0.49 | 1.10 | ..... | 3 | 14 | 16 | 1 | sw. | L. B. Baldwin. |
| Lamoine | Kidder | ..... | 2 | 39.7 | ..... | 76 | 1 | 5 | 22 | 44 | T. | ..... | T. | 0.0 | 0 | 24 | 3 | 4 | nw. | E. V. Virgin. |
| Lamoure | Lamoure | 1,307 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | A. H. Ormsby |
| McHenry | Eddy | 1,509 | 1 | 40.6 | ..... | 83 | 23 | 11 | 7 | 39 | 0.31 | ..... | 0.15 | 1.0 | 3 | 18 | 6 | 7 | nw. | John Knox. |
| Manfred | Wells | 1,605 | 8 | 40.7 | ..... | 84 | 23 | 0 | 6 | 42 | 0.36 | ..... | 0.20 | 0.0 | 4 | 18 | 9 | 4 | sw | P. B. Anderson. |
| Marmarth | Bowman | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.40 | ..... | 0.22 | 0.5 | 3 | 15 | 11 | 5 | w. | S. P. Grane. |
| Marstonmoor | Stutsman | ..... | 2 | 38.3 | ..... | 86 | 23 | 0 | 1 | 51 | 0.28 | ..... | 0.22 | T. | 2 | 22 | 7 | 2 | nw. | H. H. McCumber. |
| Medora | Billings | 2,225 | 13 | 44.6 | +19.8 | 86 | 22 | 6 | 2 | 53 | 0.64 | − 0.29 | 0.44 | T. | 4 | 20 | 7 | 4 | ne. | J. W. Hesser. |
| Melville | Foster | 1,599 | 12 | 42.0[a] | +20.7 | 86[a] | 23 | 12[a] | 1 | 44[a] | T. | − 0.77 | T. | 0.0 | 0 | ..... | ..... | ..... | w. | J. P. Kidder. |
| Mott | Hettinger | ..... | 3 | 39.9 | ..... | 86 | 26 | 0 | 6 | 42 | 0.62 | ..... | 0.30 | 0.0 | 4 | 12 | 14 | 5 | w. | O. H. Opland. |
| Napoleon | Logan | 1,955 | 18 | 39.6 | +19.1 | 87 | 23 | 2 | 1 | 51 | 0.67 | − 0.38 | 0.57 | 0.0 | 2 | 22 | 4 | 5 | sw. | C. J. Hoof. |
| New England | Hettinger | 2,400 | 14 | 40.8 | +18.5 | 84 | 22 | 6 | 7 | 53 | 0.75 | − 0.22 | 0.50 | 0.0 | 2 | ..... | ..... | ..... | nw. | W. C. McKenzie. |
| New Salem | Morton | 2,163 | 3 | 43.0 | ..... | 85 | 22 | 7 | 1 | 47 | 0.40 | ..... | 0.35 | 0.0 | 2 | 24 | 7 | 0 | nw. | J. Christianson. |
| Orange | Adams | ..... | 3 | 42.0 | ..... | 85 | 22 | 9 | 7 | 69 | C.32 | ..... | 0.22 | 0.0 | 2 | 21 | 6 | 4 | nw. | J. E. Goforth. |
| Palermo | Ward | 2,200 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. A. McCann. |
| Schafer | McKenzie | ..... | 1 | 45.0 | ..... | 85 | 22 | 12 | 1 | 44 | 1.28 | ..... | 0.75 | 0.0 | 4 | 24 | 4 | 3 | w. | F. L. Clark. |
| Steele | Kidder | 1,857 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | B. C. Smith. |
| Swartwood | Bowman | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | W. F. Adams. |
| Washburn | McLean | 1,731 | 6 | 43.2[a] | ..... | 83[a] | 23 | 10[a] | 1 | 42[a] | 0.76 | ..... | 0.72 | 0.0 | 2 | 21 | 9 | 1 | w. | W. R. Peterson. |
| Williston | Williams | 1,875 | 35 | 42.3 | +20.7 | 84 | 22 | 3 | 1 | 43 | 1.31 | + 0.63 | 1.07 | 0.0 | 5 | 10 | 11 | 10 | w. | U. S. Weather Bureau. |
| Wishek | McIntosh | 2,010 | 5 | 42.6 | ..... | 86 | 23 | 11 | 6 | 52 | 0.41 | ..... | 0.30 | 3.0 | 3 | 24 | 6 | 1 | w. | H. E. Timm. |
| *South Dakota.* | | | | | | | | | | | | | | | | | | | | |
| Aberdeen | Brown | 1,300 | 20 | 44.2 | +19.0 | 88 | 23 | 15 | 1† | 50 | 0.80 | − 1.24 | 0.35 | ..... | 3 | 20 | 6 | 5 | s. | D. G. Gallett. |
| Academy | Charles Mix | ..... | 11 | 51.2[b] | +18.3 | 89[b] | 21 | 25[b] | 7 | 46[b] | 0.46 | − 0.75 | 0.46 | 2.0 | 1 | 23 | 5 | 3 | nw. | I. T. Lothrop. |
| Alexandria | Hanson | 1,352 | 21 | 48.9 | +19.3 | 89 | 23 | 23 | 31 | 51 | 0.38 | − 1.15 | 0.38 | 0.0 | 1 | 24 | 7 | 0 | sw. | W. S. Hill. |
| Ardmore | Fall River | 3,557 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.80 | ..... | 0.60 | 5.0 | 2 | 27 | 1 | 3 | ..... | C. V. Glenn. |
| Armour | Douglas | 1,521 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. S. Bean. |
| Belle Fourche | Butte | 3,030 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | U. S. Reclamation Service. |
| Bowdle | Edmunds | 1,995 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Chas. Paul. |
| Brookings | Brookings | 1,636 | 21 | 46.2 | +18.6 | 84 | 23 | 19 | 14 | 53 | 0.35 | − 0.45 | 0.20 | T. | 2 | 17 | 14 | 0 | nw. | Experiment Station. |
| Burke | Gregory | ..... | 2 | 50.2[b] | ..... | 89[b] | 22 | 21[b] | 8 | 41[b] | 0.50 | ..... | 0.50 | 0.0 | 1 | 25 | 2 | 4 | s. | James Connell. |
| Canton | Lincoln | 1,248 | 15 | 48.3 | +16.9 | 86 | 23 | 20 | 14 | 51 | 0.05 | − 1.26 | 0.05 | 0.0 | 1 | 28 | 1 | 2 | se. | John H. Holsey. |
| Cascade Springs | Fall River | 3,422 | 2 | 48.3 | ..... | 86 | 22 | 20 | 10 | 54 | 1.00 | ..... | 0.30 | T. | 4 | 23 | 5 | 3 | nw. | Fred Noerenberg. |
| Castlewood | Hamlin | 1,685 | 4 | 44.6 | ..... | 84 | 23 | 19 | 1 | 46 | 0.52 | ..... | 0.52 | T. | 2 | 14 | 8 | 9 | nw. | M. N. Bradley. |
| Centerville | Turner | 1,229 | 13 | ..... | ..... | ..... | ..... | 22 | 14 | ..... | 0.28 | − 1.08 | 0.28 | 0.0 | 1 | 6 | 17 | 8 | nw. | Frank Williams. |
| Chamberlain | Brule | 1,363 | 13 | 49.4[c] | +16.8 | 87[b] | 21 | 20[a] | 2† | 48[c] | 0.50 | − 0.50 | 0.36 | T. | 2 | 17 | 12 | 2 | se. | G. A. Fry. |
| Clark | Clark | 1,779 | 16 | 45.0 | +18.7 | 82 | 23 | 18 | 1 | 40 | 0.62 | − 0.60 | 0.35 | 0.2 | 3 | 20 | 9 | 2 | sw. | O. H. LaCraft. |
| Clear Lake | Deuel | 1,800 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | L. F. Hanley. |
| Cottonwood | Stanley | ..... | ..... | 47.8 | ..... | 88 | 22 | 19 | 10 | 50 | 0.76 | ..... | 0.35 | 5.0 | 4 | 21 | 8 | 2 | nw. | Experiment Station. |
| Daviston | Perkins | ..... | ..... | 42.6[a] | ..... | 86[a] | 22 | 12[a] | 7 | 50[a] | 1.69 | ..... | 1.55 | T. | 2 | 18 | 9 | 4 | nw. | G. G. Davis. |
| Deadwood | Lawrence | 4,535 | ..... | 45.6 | ..... | 78 | 22 | 17 | 1 | 41 | 3.90 | ..... | 2.50 | 14.5 | 4 | 25 | 2 | 4 | ..... | R. E. Grimshaw. |
| Deerfield | Pennington | 6,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.16 | ..... | 0.40 | 6.4 | 5 | 25 | 4 | 2 | n. | Frank E. Miller. |
| De Smet | Kingsbury | 1,726 | 17 | 45.0[a] | +17.5 | 85 | 23 | 19[a] | 1 | 48[a] | 0.70 | − 0.48 | 0.70 | T. | 1 | 23 | 8 | 0 | nw. | J. G. Purintun. |
| Dowling | Stanley | 2,250 | ..... | 49.3 | ..... | 88 | 22 | 23 | 7 | 44 | 1.10 | ..... | 0.80 | 3.7 | 4 | 19 | 8 | 4 | ne. | M. P. Dowling. |
| Dumont | Lawrence | 6,195 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.04 | ..... | 1.28 | 17.5 | 6 | 23 | 6 | 2 | sw. | A. B. Wood. |
| Elk Mountain | Custer | 4,700 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.73 | ..... | 0.33 | 5.5 | 3 | 23 | 3 | 5 | s. | James E. Blaine. |
| Elk Point | Union | 1,127 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | M. Hoffman, jr. |
| Ellingson | Perkins | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | A. O. Knutson. |
| Englewood | Lawrence | 5,723 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.82 | ..... | 1.45 | 15.0 | 5 | 12 | 15 | 4 | s. | John B. Jolly. |
| Eureka | McPherson | 1,884 | 1 | 45.9 | ..... | 85 | 23 | 14 | 7 | 42 | 1.23 | ..... | 0.93 | 0.0 | 2 | 20 | 10 | 1 | w. | Experiment Station. |
| Faulkton | Faulk | 1,595 | 15 | 45.5 | + 17.9 | 85 | 21† | 19 | 7† | 45 | 1.50 | − 0.13 | 0.90 | T. | 2 | 25 | 4 | 2 | w. | Miss Belle Talcott. |
| Flandreau | Moody | 1,565 | 20 | 46.9 | +18.5 | 84 | 23 | 21 | 1† | 47 | 0.55 | − 0.53 | 0.50 | T. | 3 | 19 | 9 | 3 | s. | W. A. Harris. |
| Forestburg | Sanborn | 1,231 | 18 | 47.0 | +17.5 | 91 | 23 | 20 | 7 | 54 | 0.25 | − 0.88 | 0.21 | ..... | 2 | 22 | 6 | 3 | nw. | S. S. Judy. |
| Fort Meade | Meade | 3,624 | 28 | 51.0 | +19.4 | 85 | 22 | 22 | 7 | 41 | 1.55 | + 0.11 | 0.70 | 9.5 | 4 | 20 | 8 | 3 | w. | Post Hospital. |
| Frederick | Brown | 1,371 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.34 | + 0.89 | 0.73 | T. | 3 | 23 | 5 | 3 | ..... | J. E. Jeffers. |
| Gannvalley | Buffalo | ..... | 12 | 48.5 | +15.7 | 88 | 23 | 20 | 13 | 51 | T. | − 0.95 | T. | 0.0 | 0 | 15 | 15 | 1 | sw. | V. P. Drips. |
| Greenmount | Lawrence | 6,430 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.86 | ..... | 3.11 | 40.4 | 4 | 21 | 6 | 4 | w. | Hugh V. Harlan. |
| Greenwood | Charles Mix | ..... | 16 | 51.7 | +17.2 | 91 | 21 | 22 | 7 | 47 | 0.32 | − 0.79 | 0.32 | 0.0 | 1 | 21 | 9 | 1 | e. | T. C. Williamson. |
| Hardy Ranger Station | Lawrence | 6,600 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.33 | ..... | 1.50 | 23.0 | 5 | 27 | 0 | 4 | sw. | Mrs. Mary E. Seals. |
| Harvey's Ranch | do | 6,282 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.73 | ..... | 2.90 | 21.8 | 5 | 14 | 13 | 4 | w. | Jerome Harvey. |
| Hermosa | Custer | 3,278 | 4 | 49.8[a] | ..... | 87[a] | 22 | 22[a] | 6 | 44[b] | 1.05 | ..... | 0.50 | 5.5 | 3 | 24 | 5 | 2 | ..... | S. M. Booth. |
| Highmore | Hyde | 1,800 | 14 | 46.5 | +19.2 | 86 | 23 | 20 | 7 | 46 | 0.58 | − 0.43 | 0.54 | T. | 2 | 15 | 9 | 7 | sw. | Experiment Station. |
| Hill City | Pennington | 5,067 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.95 | ..... | 0.31 | 12.0 | 4 | 24 | 4 | 3 | s. | Geo. A. Karr. |
| Hopewell | Stanley | ..... | ..... | 47.8 | ..... | 90 | 22 | 23 | 7 | 50 | 1.00 | ..... | 1.00 | 2.0 | 1 | 19 | 10 | 2 | nw. | E. R. Myers. |
| Howard | Miner | 1,564 | 18 | 45.8[c] | +16.5 | 87[c] | 23 | 19[c] | 7 | 46[c] | 0.60 | − 0.48 | 0.40 | ..... | 2 | 25 | 6 | 0 | se. | J. J. Cox. |
| Howell | Hand | ..... | 8 | 45.6 | ..... | 88 | 21† | 19 | 14 | 52 | 0.38 | ..... | 0.19 | T. | 2 | 24 | 5 | 2 | sw. | M. A. Shuster, jr. |
| Huron | Beadle | 1,338 | 28 | 45.8 | +19.1 | 85 | 23 | 20 | 7 | 49 | 0.10 | − 0.89 | 0.08 | T. | 2 | 17 | 6 | 8 | w. | U. S. Weather Bureau. |
| Ipswich | Edmunds | 1,530 | 13 | 43.4 | +17.6 | 83 | 21 | 15 | 1 | 49 | 1.05 | − 0.44 | 0.90 | 0.0 | 2 | 23 | 5 | 3 | nw. | J. B. Taylor. |
| Kadoka | Stanley | 2,467 | ..... | 48.8[b] | ..... | 89[b] | 22 | 20[b] | 10 | 45[b] | 1.30 | ..... | 0.47 | 5.0 | 5 | 19 | 8 | 4 | nw. | Rev. D. S. Brown. |
| Kennebec | Lyman | 1,689 | 17 | 47.8[b] | +17.9 | 91[b] | 22 | 21[c] | 7 | 54[c] | 0.40 | − 0.47 | 0.20 | 2.0 | 3 | 23 | 5 | 3 | ..... | R. C. Van Horn. |
| Kidder | Marshall | 1,295 | 6 | 44.1 | ..... | 83 | 23 | 13 | 1 | 43 | 0.80 | ..... | 0.45 | 0.0 | 2 | 26 | 0 | 5 | s. | H. C. Schussler. |
| Kimball | Brule | 1,788 | 21 | 48.2 | +18.3 | 86 | 21 | 22 | 6 | 44 | 0.09 | − 0.99 | 0.09 | 0.0 | 1 | 29 | 2 | 0 | nw. | G. D. Rose. |
| La Delle | Spink | 1,400 | 13 | 46.6 | +18.4 | 85 | 29 | 15 | 8 | 45 | 0.48 | − 0.55 | 0.30 | T. | 2 | 23 | 4 | 4 | se. | E. L. Ebbert. |
| Lead | Lawrence | 5,200 | ..... | 46.0 | ..... | 75 | 22 | 20 | 1 | 31 | 2.18 | ..... | 1.10 | 10.0 | 3 | 22 | 6 | 3 | ..... | E. F. Irwin. |
| Lemmon | Perkins | 2,345 | 1 | 43.0 | ..... | 85 | 22 | 14 | 7 | 43 | 0.20 | ..... | 0.20 | ..... | 1 | 22 | 6 | 3 | nw. | W. E. Lyman. |
| Leslie | Stanley | ..... | 14 | 48.2[a] | ..... | 91[f] | 22 | 24[a] | 7† | 43[a] | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | P. G. Robinson. |
| Marion | Turner | 1,447 | 9 | 48.7 | ..... | 90 | 23 | 19 | 7† | 51 | 0.11 | ..... | 0.11 | T. | 1 | 18 | 10 | 3 | nw. | M. H. Dains. |
| Marston | Sully | ..... | 2 | 44.6[a] | ..... | 87[a] | 22 | 15[a] | 7 | 55[a] | 1.20 | ..... | 1.20 | 0.0 | 1 | 20 | 10 | 1 | nw. | John S. Walker. |
| Mellette | Spink | 1,300 | 15 | 46.3[a] | +19.1 | 87[a] | 21† | 22[a] | 1† | 48[a] | 0.48 | − 0.54 | 0.30 | T. | 2 | 25 | 3 | 3 | s. | Frank A. Howe. |
| Menno | Hutchinson | 1,325 | 13 | 48.8 | +16.9 | 89 | 23 | 24 | 7† | 47 | 0.40 | − 0.77 | 0.30 | T. | 2 | 20 | 7 | 4 | nw. | J. H. Swanton. |
| Milbank | Grant | 1,148 | 19 | 43.5 | +16.9 | 85 | 23 | 19 | 8 | 47 | 0.35 | − 1.00 | 0.35 | 0.0 | 1 | 20 | 2 | 9 | nw. | I. T. Patridge. |
| Mitchell | Davison | 1,312 | 16 | 47.8 | +16.6 | 88 | 23 | 23 | 7† | 45 | 0.32 | − 0.89 | 0.20 | T. | 2 | 25 | 4 | 2 | s. | C. W. Downey. |
| Murdo | Lyman | 2,300 | 2 | 50.8 | ..... | 90 | 22 | 20 | 10 | 45 | 2.04 | ..... | 1.00 | 6.4 | 3 | 19 | 6 | 6 | nw. | L. C. Bode. |
| Oelrichs | Fall River | 3,339 | 18 | 49.4 | +17.6 | 80 | 20 | 20 | 8 | 53 | 1.00 | − 0.76 | 1.00 | 0.0 | 1 | 13 | 14 | 4 | nw. | J. E. Strouse. |
| Orman | Butte | 2,920 | 4 | 49.6[a] | ..... | 87[a] | 22 | 21[a] | 7 | 46[a] | 0.78 | ..... | 0.58 | T. | 2 | 27 | 1 | 3 | w. | U. S. Reclamation Service. |
| Ottumwa | Stanley | ..... | 2 | 45.8 | ..... | 89 | 22 | 18 | 30 | 51 | 1.00 | ..... | 0.55 | 4.5 | 2 | 21 | 5 | 5 | nw. | J. W. Bretz. |
| Pierre | Hughes | 1,572 | 18 | 49.4 | +19.9 | 90 | 22 | 25 | 7 | 47 | 1.53 | + 0.20 | 1.50 | T. | 3 | 17 | 11 | 3 | e. | U. S. Weather Bureau. |
| Plankinton | Aurora | 1,528 | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.20 | − 1.64 | 0.20 | T. | 1 | 18 | 12 | 1 | nw. | W. G. Andrews. |
| Rapid City | Pennington | 3,251 | 22 | 49.0 | +17.4 | 85 | 22 | 22 | 10 | 40 | 1.73 | + 0.68 | 0.72 | 8.3 | 4 | 16 | 12 | 3 | w. | U. S. Weather Bureau. |
| Redfield | Spink | 1,295 | 12 | 44.8 | +16.6 | 86 | 23 | 10 | 2 | 44 | 0.25 | − 0.47 | 0.15 | 0.0 | 2 | 25 | 2 | 4 | nw. | A. S. Hall. |
| Rochford | Pennington | 5,228 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.60 | ..... | 0.70 | 5.0 | 5 | 20 | 8 | 3 | nw. | Mrs. M. E. Deffenbaugh. |
| Rosebud | Meyer | 2,600 | 16 | 48.2[b] | +16.9 | 87[b] | 23 | 19[b] | 7 | 46[b] | 2.40 | + 1.14 | 1.00 | 14.0 | 3 | 18 | 10 | 3 | sw. | W. M. Ege. |
| Roslyn | Day | ..... | 4 | ..... | ..... | 80[c] | 23 | 19[i] | 7 | 39[i] | 0.29 | ..... | 0.29 | 0.2 | 2 | 22 | 8 | 1 | s. | O. O. Floren. |
| Savoy | Lawrence | 4,500 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.68 | ..... | 2.03 | 19.0 | 3 | 12 | 17 | 2 | ..... | M. J. Hall. |
| Selby | Walworth | ..... | 2 | 45.2 | ..... | 83 | 24 | 18 | 1† | 43 | 1.48 | ..... | 0.98 | ..... | 2 | 23 | 8 | 0 | nw. | Miss Gertrude Hall. |
| Sioux Falls | Minnehaha | 1,400 | 19 | 49.2[a] | +19.5 | 87 | 23 | 21[a] | 1 | 50[a] | 0.35 | − 1.02 | 0.25 | 0.0 | 2 | 19 | 9 | 3 | s. | J. H. Bechtold. |
| Spearfish | Lawrence | 3,647 | 20 | 50.2 | +18.8 | 82 | 22 | 22 | 7 | 38 | 1.40 | − 0.42 | 0.50 | 10.0 | 3 | 15 | 13 | 3 | w. | O. A. Martin. |

TABLE 1.—*Climatological data for March, 1910. District No. 6*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *South Dakota*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Stephan | Hyde | 1,840 | 6 | 45.4 | ..... | 85 | 21† | 19 | 7 | 53 | 0.05 | ..... | 0.05 | T. | 1 | 18 | 9 | 4 | nw. | Rev. A. Mattingly. |
| Tama | Meade | ..... | 1 | 44.4 | ..... | 89 | 22 | 19 | 7† | 45 | 1.13 | ..... | 0.97 | T. | 3 | 15 | 6 | 10 | nw. | J. J. Daly. |
| Vale | Butte | 2,765 | 2 | 47.8 | ..... | 88 | 22 | 21 | 10 | 45 | 0.95 | ..... | 0.63 | 1.4 | 2 | 25 | 4 | 2 | nw. | U. S. Reclamation Service. |
| Vermilion | Clay | 1,222 | 9 | 52.1 | ..... | 89 | 23 | 25 | 7† | 48 | 0.08 | ..... | 0.05 | 0.0 | 2 | 29 | 2 | 0 | s. | Prof. E. C. Perisho. |
| Water's Ranch | Lawrence | 4,000 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.73 | ..... | 0.59 | 4.1 | 2 | 19 | 6 | 6 | sw. | George Waters. |
| Watertown | Codington | 1,735 | 16 | 45.0 | +18.7 | 82 | 23 | 20 | 1† | 39 | T. | − 0.83 | T. | 0.0 | 0 | 23 | 6 | 2 | s. | Robert Q. Wood. |
| Wentworth | Lake | ..... | 17 | 46.8[a] | +18.3 | 84[a] | 23 | 23[a] | 1 | 46[a] | 0.15 | − 0.85 | 0.06 | 0.0 | 3 | 25 | 4 | 2 | s. | R. C. Zimmerman. |
| Wessington Springs | Jerauld | 1,410 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | F. N. Dunham. |
| White Lake | Aurora | 1,646 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.05 | ..... | 0.05 | 0.0 | 1 | 15 | 13 | 3 | nw. | Mrs. G. A. Rogers. |
| Yankton | Yankton | 1,234 | 36 | 50.4 | +19.2 | 88 | 23 | 26 | 14 | 43 | 0.39 | − 0.75 | 0.39 | T. | 2 | 12 | 14 | 5 | w. | U. S. Weather Bureau. |
| *Minnesota.* | | | | | | | | | | | | | | | | | | | | |
| Pipestone | Pipestone | 1,710 | 11 | 46.0 | +18.5 | 84 | 23 | 20 | 1† | 48 | 0.04 | − 0.75 | 0.04 | 0.2 | 1 | 24 | 6 | 1 | se. | W. S. Campbell. |
| *Colorado.* | | | | | | | | | | | | | | | | | | | | |
| Akron | Washington | 4,650 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.26 | ..... | 0.18 | 0.0 | 2 | ..... | ..... | ..... | ..... | Ira M. Barnhouse. |
| Alma | Park | 10,238 | 13 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.36 | − 0.99 | 0.21 | 6.0 | 2 | 19 | 0 | 12 | w. | F. H. Clark. |
| Arriba (near) | Lincoln | 5,238 | 4 | 46.6 | ..... | 77 | 22† | 18 | 15 | 54 | 1.00 | ..... | 1.00 | 4.0 | 1 | 21 | 9 | 1 | sw. | C. S. Graves. |
| Auldhurst | Teller | 8,500 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.54 | ..... | 0.41 | 5.5 | 2 | 17 | 12 | 2 | s. | Mrs. Alice A. Auld. |
| Barker | Boulder | 8,000 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Eastern Colo. Power Co. |
| Boreas | Park | 11,489 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.28 | ..... | 0.22 | 8.8 | 3 | 14 | 14 | 3 | nw. | Frank Soper. |
| Boulder | Boulder | 5,347 | 14 | 54.0 | +14.5 | 83 | 21 | 24 | 30 | 34 | 0.05 | − 1.63 | 0.05 | T. | 2 | 26 | 4 | 1 | w. | S. A. Giffin. |
| Burlington | Kit Carson | 4,160 | 6 | 51.6[c] | ..... | 85[c] | 12 | 10[b] | 10 | 53[c] | 0.05 | ..... | 0.05 | 0.0 | 1 | 23 | 7 | 1 | nw. | C. Creglow. |
| Cassells | Park | 8,445 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.10 | ..... | 0.10 | 1.1 | 1 | 20 | 9 | 2 | w. | Harriet M. Cassell. |
| Castle Rock | Douglas | 6,220 | 18 | 44.3 | + 8.3 | 76 | 22 | 3 | 29 | 49 | 1.67 | + 0.55 | 1.67 | 20.0‖ | 1 | ..... | ..... | ..... | ..... | Chas. Hy. Ellis. |
| Cheesman | Jefferson | 6,890 | 7 | 43.8 | ..... | 69 | 20 | 14 | 10 | 44 | 0.40 | ..... | 0.40 | 4.0 | 1 | 17 | 11 | 3 | w. | C. L. Adams. |
| Cheyenne Wells | Cheyenne | 4,279 | 18 | 51.2[a] | +13.5 | 89[a] | 17 | 14[a] | 10 | 59[a] | 0.09 | − 0.79 | 0.09 | 0.0 | 1 | 26[b] | 3[b] | 0[b] | n. | J. B. Robertson. |
| Como | Park | 9,785 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Edwin Pike. |
| Cope | Washington | ..... | 12 | 48.3 | +10.4 | 79 | 5 | 18 | 10 | 49 | 0.96 | − 0.30 | 0.96 | 0.0 | 1 | 22 | 9 | 0 | s. | A. A. Williams. |
| Corona | Grand | 11,660 | 3 | 24.4 | ..... | 44 | 19† | − 1 | 30 | 28 | 3.14 | ..... | 0.88 | 32.8 | 7 | 21 | 4 | 6 | w. | U. S. Weather Bureau. |
| Denver | Denver | 5,272 | 38 | 50.4 | +11.7 | 78 | 22 | 18 | 30 | 42 | 0.96 | − 0.04 | 0.96 | 2.8 | 2 | 24 | 6 | 1 | s. | Do. |
| Edgewater | Jefferson | 5,450 | 2 | 47.6 | ..... | 80 | 22 | 12 | 30 | 54 | 0.86 | ..... | 0.86 | 0.3 | 1 | 24 | 6 | 1 | ..... | Dr. J. B. Fish. |
| Estes Park Fish Hatchery | Larimer | 8,000 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.16 | ..... | 0.16 | 3.0 | 1 | 18 | 9 | 4 | w. | Gaylord H. Thomson. |
| Fort Collins | Larimer | 4,985 | 31 | 47.1 | +11.2 | 80 | 22 | 12 | 10 | 51 | 0.06 | − 0.99 | 0.05 | 0.0 | 2 | 22 | 8 | 1 | w. | Colorado Agri. College. |
| Fort Morgan | Morgan | 4,319 | 12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Della M. Scott. |
| Frances | Boulder | 9,300 | 5 | 40.0 | ..... | 65 | 19 | 13 | 10 | 40 | 0.37 | ..... | 0.24 | 5.0 | 3 | 16 | 13 | 2 | w. | D. A. Barry. |
| Fry's Ranch | Larimer | 7,500 | ... | 42.4 | ..... | 70 | 21† | 16 | 30 | 40 | 0.74 | ..... | 0.74 | 6.0 | 1 | 23 | 7 | 1 | w. | Norman W. Fry. |
| Georgetown | Clear Creek | 8,550 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.29 | ..... | 0.10 | 1.5 | 4 | 23 | 4 | 4 | ..... | H. L. Corbett. |
| Greeley | Weld | 4,649 | 18 | 48.8 | +11.6 | 84 | 22 | 12 | 29 | 62 | 0.40 | − 0.44 | 0.40 | 2.5 | 1 | 24 | 5 | 2 | e. | Nelson Reynolds. |
| Hartsel | Park | 7,679 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.04 | ..... | 0.01 | 1.3 | 4 | 24 | 4 | 3 | ..... | Emily Kleinknecht. |
| Hawthorne | Boulder | 6,000 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.25 | ..... | 0.25 | 0.0 | 1 | 30 | 0 | 1 | ..... | B. E. Chesebro. |
| Holyoke (near) | Phillips | 3,745 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.34 | − 0.75 | 0.34 | 0.0 | 1 | 27 | 0 | 4 | nw. | A. C. Cauble. |
| Idaho Springs | Clear Creek | 7,534 | 10 | 42.8 | + 8.5 | 70 | 21† | 15 | 10 | 37 | 0.44 | − 0.65 | 0.30 | 4.0 | 3 | 0 | 31 | 0 | w. | J. J. Willis. |
| Kossler | Boulder | 7,720 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.22 | ..... | 0.15 | 3.0 | 2 | 15 | 14 | 2 | ..... | Central Colo. Power Co. |
| La Porte | Larimer | 5,053 | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.01 | − 1.35 | 0.01 | 0.0 | 1 | ..... | ..... | ..... | ..... | P. A. Taft. |
| Le Roy (near) | Logan | 4,380 | 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Chas. Green. |
| Longmont | Boulder | 4,980 | 8 | 48.8[c] | ..... | 82[c] | 21 | 13 | 10 | 54[c] | 0.02 | ..... | 0.02 | 0.0 | 1 | 26 | 4 | 1 | ..... | Geo. W. Johnson. |
| Long's Peak (near) | Larimer | 8,600 | 15 | 37.5 | +11.0 | 62 | 22 | 0 | 10 | 48 | 0.64 | − 1.37 | 0.42 | 8.0 | 3 | 23 | 4 | 4 | ..... | Enos A. Mills. |
| Moraine | ...do | 7,775 | 20 | 46.0 | +10.5 | 65 | 22 | 5 | 10 | 41 | 0.25 | − 1.46 | 0.25 | 3.0 | 1 | 24 | 5 | 2 | w. | J. D. Stead. |
| Platte Canyon | Jefferson | 5,492 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.65 | − 0.34 | 0.65 | 1.0 | 2 | 28 | 2 | 1 | sw. | Denver Union Water Co. |
| St. Cloud | Larimer | 7,750 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.68 | ..... | 0.68 | 7.5 | 1 | 18 | 8 | 5 | nw. | Mrs. E. K. Bristol. |
| Sedgwick | Sedgwick | 3,573 | 2 | 49.2 | ..... | 88 | 21 | 12 | 1 | 60 | 0.92 | ..... | 0.55 | 0.3 | 4 | 26 | 4 | 1 | ne. | Dr. Edwin Lewis. |
| Sill Mine | Clear Creek | 11,500 | 1 | 27.0 | ..... | 47 | 21 | 2 | 10† | 28 | 1.12 | ..... | 0.45 | 12.6 | 7 | 24 | 3 | 4 | w. | Chas. F. Deininger. |
| Spicer (near) | Larimer | 8,700 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.16 | ..... | 0.15 | 1.8 | 2 | 26 | 4 | 1 | ..... | Frank W. Murphy. |
| Sterling | Logan | 3,892 | ... | 49.6 | ..... | 86 | 22 | 15 | 10 | 55 | 0.36 | ..... | 0.35 | T. | 2 | 24 | 4 | 3 | sw. | Great Western Sugar Co. |
| Waterdale | Larimer | 5,206 | 7 | 49.5 | +11.7 | 79 | 21† | 18 | 10 | 47 | 0.11 | − 1.35 | 0.07 | 0.0 | 2 | ..... | ..... | ..... | ..... | P. H. Boothroyd. |
| Westlake | Boulder | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | G. E. Richardson. |
| Wray | Yuma | 3,512 | 14 | 51.0 | +12.3 | 88 | 22 | 21 | 1† | 58 | 0.38 | − 0.71 | 0.31 | 0.0 | 3 | 25 | 6 | 0 | s. | J. C. Tuomey. |
| Yuma | Yuma | 4,138 | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.45 | − 0.92 | 0.45 | T. | 1 | 19 | 6 | 6 | se. | Geo. W. Custer. |
| *Nebraska.* | | | | | | | | | | | | | | | | | | | | |
| Ainsworth | Brown | 2,521 | 5 | 50.6 | ..... | 89 | 22 | 20 | 7 | 52 | 0.50 | ..... | 0.39 | 4.4 | 3 | 8 | 20 | 3 | sw. | John M. Cotton. |
| Albion | Boone | 1,747 | 12 | 51.9 | +15.5 | 89 | 22 | 16 | 10 | 49 | 0.39 | − 0.49 | 0.39 | 3.5 | 1 | 19 | 7 | 5 | s. | F. M. Weitzel. |
| Alliance | Boxbutte | 3,968 | 15 | 47.2 | +13.2 | 84 | 22 | 18 | 30 | 50 | 1.10 | + 0.26 | ..... | ..... | 2 | 26 | 3 | 2 | sw. | J. A. Keegan. |
| Alma | Harlan | 1,939 | 13 | 53.0 | +12.1 | 92 | 23 | 19 | 31 | 58 | 0.00 | − 0.82 | 0.00 | 0.0 | 0 | 25 | 6 | 0 | n. | W. A. Sharpnack |
| Anoka | Boyd | ..... | 4 | 50.0 | ..... | 92 | 22 | 18 | 7 | 57 | 0.09 | ..... | 0.09 | 1.0 | 1 | 16 | 10 | 5 | nw. | W. Whitla. |
| Arcadia | Valley | 2,186 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.23 | ..... | 0.23 | ..... | 1 | 24 | 6 | 1 | nw. | Jas. L. Owen. |
| Ashland | Saunders | 1,100 | 27 | 52.7 | +13.8 | 90 | 22 | 26 | 7† | 49 | 0.09 | − 0.98 | 0.09 | 0.5 | 1 | 25 | 5 | 1 | s. | Dr. A. S. von Mansfelder. |
| Ashton | Sherman | 2,061 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.30 | − 0.43 | 0.30 | 3.0 | 1 | 24 | 5 | 2 | sw. | F. Rein. |
| Atkinson | Holt | 2,108 | 4 | 50.4[a] | ..... | 90[a] | 22 | 19 | 10 | 51[a] | 0.04 | ..... | 0.04 | ..... | 1 | 23 | 5 | 3 | nw. | Chas. J. Wilson. |
| Auburn | Nemaha | 1,051 | 18 | 54.8 | +14.9 | 93 | 22† | 21 | 15 | 50 | T. | − 1.89 | T. | T. | 0 | 26 | 4 | 1 | sw. | J. R. Huffman. |
| Aurora | Hamilton | 1,792 | 15 | 54.5 | +16.5 | 91 | 23 | 18 | 10 | 50 | 0.05 | − 0.84 | 0.05 | 0.5 | 1 | 25 | 5 | 1 | s. | Chi., Burl. & Quincy R. R. |
| Beatrice | Gage | 1,235 | 19 | 53.7 | +14.6 | 88 | 22 | 24 | 7 | 48 | T. | − 1.35 | T. | 0 | 0 | 27 | 1 | 3 | sw. | Wm. S. Waxham. |
| Beaver City | Furnas | 2,147 | 19 | 54.9 | +14.2 | 92 | 23 | 24 | 7† | 50 | 0.00 | − 0.75 | 0.00 | 0.0 | 0 | 26 | 3 | 2 | sw. | T. M. Davis. |
| Bellevue | Sarpy | 1,210 | 28 | 54.7 | ..... | 90 | 22 | 26 | 10 | 45 | 0.00 | − 1.17 | 0.00 | 0.0 | 0 | 28 | 0 | 3 | s. | Prof. A. A. Tyler. |
| Benkelman | Dundy | 2,968 | 13 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.04 | − 0.78 | 0.04 | 0.0 | 1 | 14 | 14 | 3 | se. | R. D. Druliner. |
| Bertrand | Phelps | 2,515 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | ..... | ..... | ..... | ..... | W. F. Dobbin. |
| Blair | Washington | 1,122 | 15 | 52.6 | +15.3 | 89 | 22 | 26 | 8† | 49 | T. | − 0.97 | T. | 0.0 | 0 | 25 | 6 | 0 | sw. | H. H. Hahn. |
| Bloomfield | Knox | ..... | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. M. Barnard. |
| Bradshaw | York | 1,715 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.20 | − 0.78 | 0.20 | 2.0 | 1 | 29 | 1 | 1 | ..... | E. C. Roggy. |
| Bridgeport | Morrill | 3,658 | 14 | 47.9[a] | +10.6 | 85[a] | 21† | 20[a] | 2† | 55[a] | 0.80 | − 0.05 | 0.80 | T. | 1 | 25 | 5 | 1 | nw. | Robt. H. Willis. |
| Brokenbow | Custer | 2,477 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Chi., Burl. & Quincy R. R. |
| Burge | Cherry | 2,674 | 4 | 49.4 | ..... | 89 | 22 | 14 | 10 | 53 | 0.41 | ..... | 0.25 | ..... | 2 | 24 | 3 | 4 | nw. | H. A. Davis. |
| Cairo | Hall | 1,951 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.30 | ..... | 0.30 | 3.0 | 1 | ..... | ..... | ..... | ..... | Elliott Harrison. |
| Callaway | Custer | 2,555 | 17 | 51.4[c] | +14.8 | 90[c] | 23 | 19[c] | 7 | 55[c] | 0.31 | − 0.45 | 0.31 | 3.0 | 1 | ..... | ..... | ..... | s. | J. H. Evans. |
| Cambridge | Furnas | 2,258 | 3 | 53.4 | ..... | 92 | 23 | 23 | 10† | 56 | T. | ..... | T. | T. | 0 | 27 | 2 | 2 | s. | Chas. Jensen. |
| Canton (near) | Sioux | ..... | 1 | ..... | ..... | 78[a] | 26† | 18[a] | 9 | ... | 0.21 | ..... | 0.15 | ..... | 2 | ..... | ..... | ..... | ..... | A. E. Hann. |
| Columbus | Platte | 1,442 | 17 | 51.8 | +15.1 | 92 | 22 | 20 | 10 | 48 | 0.16 | − 0.64 | 0.16 | 1.0 | 1 | 24 | 3 | 4 | nw. | C. C. Gray. |
| Cozad | Dawson | 2,496 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.25 | ..... | 0.25 | 3.0 | 1 | 26 | 4 | 1 | s. | A. A. Luttin. |
| Creighton | Knox | 1,600 | 13 | 52.2 | +21.4 | 91 | 22 | 23 | 7 | 50 | 0.14 | − 0.90 | 0.09 | 0.5 | 2 | 19 | 10 | 2 | sw. | E. S. Cowan. |
| Crete | Saline | 1,368 | 27 | 54.4 | +17.2 | 89 | 22 | 25 | 7 | 47 | 0.00 | − 1.42 | 0.00 | 0.0 | 0 | 25 | 3 | 3 | s. | Doane College. |
| Culbertson | Hitchcock | 2,565 | 23 | 54.1[b] | ..... | 90 | 22 | 25[c] | 12 | 53[c] | 0.03 | − 0.97 | 0.03 | 0.0 | 1 | 25 | 1 | 5 | sw. | J. H. Corrick. |
| Curtis | Frontier | 2,553 | 13 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Dr. S. R. Rasee. |
| David City | Butler | 1,619 | 21 | 52.6 | +18.1 | 87 | 22 | 24 | 10 | 42 | 0.25 | − 1.16 | 0.25 | 1.5 | 1 | 20 | 9 | 2 | se. | S. Clingman. |
| Dawson | Richardson | 945 | 17 | 54.1 | +11.9 | 92 | 22 | 22 | 9† | 50 | T. | − 1.50 | T. | 0.0 | 0 | 26 | 3 | 2 | sw. | Mrs. E. I. Atkinson. |
| Dubois | Pawnee | 1,074 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | T. | 0 | 30 | 1 | 0 | n. | O. M. Backus. |
| Edgar | Clay | 1,722 | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Geo. W. Ferree. |
| Ellis | Gage | 1,430 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | ..... | 0 | ..... | ..... | ..... | ..... | D. J. Wood. |
| Elmcreek | Buffalo | 2,268 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.32 | ..... | 0.32 | ..... | 1 | ..... | ..... | ..... | ..... | E. L. Sutton. |
| Elsie | Perkins | 3,382 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.21 | ..... | 0.21 | T. | 1 | ..... | ..... | ..... | ..... | J. F. Brittain. |

TABLE 1.—*Climatological data for March, 1910. District No. 6*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Nebraska*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Enderslake | Brown | | 1 | | | | | | | | | | | | | | | | | G. W. Chappell. |
| Ewing | Holt | 1,888 | 18 | 50.7 | | 93 | 23 | 20 | 7 | 56 | 0.15 | − 1.06 | 0.15 | 1.5 | 1 | | | | | G. H. Benson. |
| Fairbury | Jefferson | 1,316 | 35 | 54.8 | +14.2 | 93 | 22 | 24 | 7 | 50 | 0.00 | − 1.53 | 0.00 | 0.0 | 0 | 24 | 6 | 1 | sw. | W. F. Cramb. |
| Fairmont | Fillmore | 1,641 | 17 | 51.2 | +13.7 | 87 | 22 | 24 | 7† | 51 | 0.21 | − 0.81 | 0.21 | 2.0 | 1 | 27 | 2 | 2 | s. | Chi., Burl. & Quincy R. R. |
| Fort Robinson | Dawes | 3,764 | 26 | 48.2 | +14.4 | 85 | 22 | 24 | 9 | 47 | 1.07 | − 0.12 | 0.45 | ..... | 3 | 25 | 0 | 6 | sw. | Post Hospital. |
| Franklin | Franklin | 1,820 | 19 | 52.6 | +14.0 | 90 | 22† | 18 | 31 | 57 | 0.00 | − 0.96 | 0.00 | 0.0 | 0 | 30 | 1 | 0 | s. | D. T. Shoemaker. |
| Fremont | Dodge | 1,203 | 30 | 52.2 | +16.6 | 89 | 22 | 26 | 10† | 45 | T. | − 1.49 | T. | T. | 0 | 24 | 5 | 2 | se. | Ernest Hahn. |
| Fullerton | Nance | 1,629 | 8 | 52.4 | ..... | 91 | 22 | 16 | 10 | 59 | 0.60 | ..... | 0.35 | 3.5 | 2 | 20 | 9 | 2 | s. | Dr. F. W. Johnson. |
| Geneva | Fillmore | 1,633 | 20 | 54.2 | +15.5 | 90 | 22 | 26 | 31 | 47 | 0.06 | − 0.92 | 0.06 | 0.5 | 1 | 25 | 5 | 1 | sw. | F. M. Flory. |
| Genoa | Nance | 1,584 | 35 | 52.6 | +18.0 | 89 | 22† | 18 | 10 | 49 | 0.30 | − 0.89 | 0.27 | 3.0 | 2 | 24 | 6 | 1 | sw. | F. W. Parsons. |
| Gordon | Sheridan | 3,550 | 8 | 47.4[d] | ..... | 86[d] | 22 | 11[d] | 10 | 56[d] | 1.30 | + 0.63 | 0.80 | 13.0 | 2 | ..... | | | nw. | G. F. Williams. |
| Gosper | Gosper | | 8 | | | | | | | | 0.00 | ..... | 0.00 | 0.0 | 0 | 18 | 11 | 2 | sw. | E. H. Stoll. |
| Gothenburg | Dawson | 2,557 | 16 | 52.3[a] | +14.2 | 91 | 23 | 20[a] | 30 | 54[a] | 0.23 | − 0.56 | 0.23 | 2.3 | 1 | 25 | 1 | 5 | nw. | Dr. W. J. Bartholomew. |
| Grand Island | Hall | 1,860 | 19 | 53.0 | +16.0 | 90 | 22† | 22 | 8† | 54 | 0.03 | − 1.00 | 0.03 | ..... | 1 | 22 | 4 | 5 | s. | E. A. Barnes. |
| Grant | Perkins | 3,405 | 7 | 50.2[c] | ..... | 101 | 21 | 18 | 10† | 68 | 0.58 | ..... | 0.50 | ..... | 2 | 23 | 5 | 3 | nw. | Cyrus Carver. |
| Greeley | Greeley | 2,121 | 15 | 51.8 | ..... | 90 | 22 | 19 | 7 | 51 | 0.90 | + 0.24 | 0.90 | 9.0 | 1 | 22 | 8 | 1 | nw. | W. E. Morgan. |
| Guiderock | Webster | 1,646 | 10 | | | | | | | | T. | − 1.32 | T. | T. | 0 | 26 | 3 | 2 | s. | J. S. Marsh. |
| Haigler | Dundy | 3,258 | 15 | | | | | | | | 0.00 | − 0.71 | 0.00 | C.0 | 0 | 16 | 9 | 6 | ..... | Chi., Burl. & Quincy R. R. |
| Halsey‖ | Thomas | 2,695 | 8 | 52.5 | ..... | 90 | 22 | 20 | 7 | 52 | 0.27 | ..... | 0.15 | ..... | 2 | 21 | 7 | 3 | nw. | U. S. Forest Service. |
| Hartington | Cedar | 1,309 | 19 | 51.4 | +18.6 | 88 | 20† | 20 | 19 | 57 | 0.05 | − 1.27 | 0.05 | 0.0 | 1 | 12 | 10 | 9 | nw. | D. E. Ewing. |
| Harvard | Clay | 1,812 | 21 | 50.6 | +14.4 | 87 | 23 | 22 | 31 | 47 | 0.02 | − 0.93 | 0.02 | 0.2 | 1 | 28 | 2 | 1 | s. | Dr. J. T. Fleming. |
| Hastings | Adams | 1,932 | 20 | 52.0 | +14.6 | 90 | 23 | 26 | 31 | 47 | 0.10 | − 0.96 | 0.10 | 1.0 | 1 | 30 | 0 | 1 | se. | Chi., Burl. & Quincy R. R. |
| Hayes Center | Hayes | | 17 | 53.1 | | 96 | 21 | 23 | 1† | 56 | 0.09 | − 1.22 | 0.05 | 0.5 | 3 | 26 | 3 | 2 | nw. | C. A. Ready. |
| Hays Springs | Sheridan | 3,821 | 23 | 48.4 | +16.4 | 84 | 22 | 17 | 10† | 50 | 1.80 | + 0.23 | 0.70 | 7.0 | 4 | 22 | 7 | 2 | nw. | A. Kadlecek. |
| Hebron | Thayer | 1,458 | 25 | 53.5 | +14.8 | 90 | 22 | 24 | 7 | 49 | T. | − 1.36 | T. | T. | 0 | ..... | | | ..... | Dr. C. M. Easton. |
| Hemingford | Boxbutte | 4,256 | 1 | | | | | | | | 0.40 | ..... | 0.23 | ..... | 4 | ..... | | | ..... | A. S. Enyeart. |
| Hendley | Furnas | 2,231 | 6 | | | | | | | | 0.00 | ..... | 0.00 | 0.0 | 0 | | | | ..... | F. L. Jones. |
| Hillside | McPherson | | 1 | 48.7 | | 86 | 22 | 17 | 14 | 54 | 0.70 | ..... | 0.51 | 2.0 | 3 | 22 | 7 | 2 | nw. | Mrs. M. R. Lloyd. |
| Holdrege | Phelps | 2,324 | 18 | 54.0 | +16.6 | 91 | 23 | 23 | 1 | 47 | 0.00 | − 0.95 | 0.00 | 0.0 | 0 | 24 | 1 | 6 | sw. | Chi., Burl. & Quincy R. R. |
| Hooper‖ | Dodge | 1,228 | 13 | 51.2 | +14.3 | 90 | 22 | 24 | 10 | 45 | T. | − 0.95 | T. | T. | 0 | 21 | 6 | 4 | sw. | W. Howard Heine. |
| Imperial | Chase | 3,278 | 20 | 51.4[a] | +13.6 | 87 | 22 | 20[a] | 1 | 52[a] | 0.38 | − 0.96 | 0.26 | T. | 2 | 14 | 12 | 5 | nw. | Robt. Malcolm. |
| Kearney | Buffalo | 2,146 | 20 | 52.1 | +14.8 | 91 | 23 | 20[c] | 31 | 54[c] | 0.05 | − 0.89 | 0.05 | 0.5 | 1 | 26 | 4 | 1 | n. | N. C. Dunlap. |
| Kimball | Kimball | 4,697 | 21 | 47.0 | +12.0 | 80 | 22 | 19 | 1 | 50 | 1.00 | + 0.04 | 1.00 | 6.0 | 1 | 24 | 6 | 1 | w. | F. J. Bellow. |
| Kirkwood | Rock | | 15 | 50.9 | +17.6 | 92 | 22 | 23 | 7† | 52 | 0.50 | − 0.50 | 0.40 | 4.0 | 2 | 23 | 6 | 2 | nw. | Mrs. C. Arter. |
| Kowanda | Deuell | | 2 | | | | | | | | 0.65 | ..... | 0.62 | ..... | 2 | ..... | | | ..... | Geo. W. Hulse. |
| Lexington | Dawson | 2,385 | 21 | 51.8 | +15.0 | 91 | 23 | 20 | 7† | 54 | T. | − 1.12 | T. | 0.0 | 0 | 27 | 0 | 4 | se. | Robt. Chadwick. |
| Lincoln | Lancaster | 1,189 | 31 | 53.4 | +17.4 | 90 | 22 | 28 | 15 | 46 | 0.10 | − 1.23 | 0.10 | 1.0 | 1 | 19 | 8 | 4 | s. | U. S. Weather Bureau. |
| Loup | Sherman | 2,067 | 16 | 50.6 | +14.3 | 90 | 23 | 18 | 5 | 53 | 0.90 | + 0.04 | 0.90 | 4.0 | 1 | 29 | 0 | 2 | sw. | E. S. Hayhurst. |
| Loyal | Custer | | 2 | | | | | | | | 0.30 | ..... | 0.30 | 3.0 | 1 | 29 | 0 | 2 | s. | C. H. Cass. |
| McCook | Redwillow | 2,506 | 15 | 53.0[a] | +13.8 | 91 | 22 | 20[a] | 8 | 58[a] | 0.00 | − 0.75 | 0.00 | 0.0 | 0 | 30 | 0 | 1 | s. | C. G. Coglizer. |
| McCool Junction | York | 1,575 | 12 | | | | | | | | T. | − 0.94 | T. | T. | 0 | ..... | | | ..... | L. L. Slagle. |
| Madison | Madison | 1,585 | 17 | 51.5 | +16.5 | 87 | 21† | 24 | 10† | 54 | T. | − 0.93 | T. | T. | 0 | 25 | 3 | 3 | se. | Dr. F. A. Long. |
| Marquette | Hamilton | 1,839 | 31 | | | | | | | | 0.25 | − 0.71 | 0.25 | 2.5 | 1 | ..... | | | ..... | John Ellis. |
| Mason City | Custer | 2,257 | 9 | | | | | | | | 0.45 | − 0.37 | 0.45 | ..... | 1 | ..... | | | ..... | J. A. Amsberry. |
| Minatare | Scottsbluff | 3,825 | 1 | | | | | | | | 0.20 | ..... | 0.20 | 2.0 | 1 | 22 | 6 | 3 | w. | Anthony Kennedy. |
| Minden | Kearney | 2,169 | 33 | 52.2 | +15.5 | 90 | 23 | 21 | 31 | 51 | 0.04 | − 1.31 | 0.04 | T. | 1 | 21 | 7 | 3 | sw. | Joel Hull. |
| Mitchell | Scottsbluff | | 2 | 46.6 | ..... | 83 | 22 | 15 | 30 | 51 | 0.52 | ..... | 0.50 | 5.0 | 2 | 20 | 10 | 1 | w. | U. S. Reclamation Service. |
| Monroe | Platte | 1,525 | 13 | | | | | | | | | | | | | | | | ..... | Wm. Webster. |
| Morrill | Scottsbluff | | 1 | | | | | | | | | | | | | | | | ..... | Edwin K. Wieland. |
| Nebraska City | Otoe | 941 | 33 | 52.4[a] | | 91[b] | 22 | 20[a] | 15 | 47[a] | 0.05 | − 1.41 | 0.05 | 0.5 | 1 | 22 | 6 | 3 | s. | Chi., Burl. & Quincy R. R. |
| Norfolk | Madison | 1,532 | 27 | 50.5 | +17.0 | 92 | 22 | 20 | 7 | 54 | T. | − 0.92 | T. | T. | 0 | 27 | 3 | 1 | s. | Dr. P. H. Salter. |
| North Loup | Valley | 1,961 | 22 | 51.2 | +16.0 | 90 | 21† | 20 | 7 | 55 | 0.60 | − 0.34 | 0.60 | 6.0 | 1 | 21 | 8 | 2 | s. | W. G. Rood. |
| North Platte | Lincoln | 2,841 | 36 | 51.0 | +15.7 | 86 | 22 | 22 | 1 | 49 | 0.19 | − 0.68 | 0.18 | 2.2 | 2 | 23 | 5 | 3 | w. | U. S. Weather Bureau. |
| Oakdale | Antelope | 1,722 | 23 | 49.2 | +16.4 | 88 | 22 | 20 | 7 | 51 | 0.17 | − 0.75 | 0.15 | 1.0 | 2 | 21 | 8 | 2 | s. | G. S. Clingman. |
| Odell | Gage | 1,278 | 16 | | | | | | | | 0.00 | − 1.19 | 0.00 | 0.0 | 0 | 21 | 7 | 3 | ..... | Chi., Burl. & Quincy R. R. |
| Omaha | Douglas | 1,103 | 40 | 54.5 | +18.5 | 88 | 22 | 29 | 10 | 41 | T. | − 1.39 | T. | T. | 0 | 20 | 7 | 4 | s. | U. S. Weather Bureau. |
| Ord | Valley | 2,062 | 16 | | | | | | | | 0.31 | − 0.49 | 0.31 | ..... | 1 | 19 | 10 | 2 | s. | James Milford. |
| Orleans | Harlan | 1,993 | 2 | | | | | | | | 0.00 | ..... | 0.00 | 0.0 | 0 | ..... | | | ..... | James McGeachin. |
| Osceola | Polk | 1,644 | 12 | 52.0[d] | ..... | 88[d] | 22† | 20[d] | 11 | 47[d] | 0.20 | − 0.77 | 0.20 | 2.0 | 1 | ..... | | | s. | G. T. Ray. |
| Palisade | Hitchcock | | 1 | | | | | | | | 0.00 | ..... | 0.00 | 0.0 | 0 | ..... | | | ..... | E. E. Young. |
| Palmyra**‖ | Otoe | 1,142 | 15 | 52.7 | +13.9 | 88 | 22† | 26 | 7† | ..... | 0.14 | − 0.85 | 0.14 | T. | 1 | 26 | 5 | 0 | sw. | Thomas Coles. |
| Pawnee City | Pawnee | 1,175 | 15 | 54.0 | ..... | 94 | 22 | 18 | 15 | 53 | T. | − 1.02 | T. | 0.0 | 0 | 28 | 1 | 2 | sw. | Frank A. Barton. |
| Plymouth | Jefferson | 1,419 | 6 | 53 4 | ..... | 89 | 22 | 25 | 1 | 47 | | | | | | 14 | 14 | 3 | s. | John Ruppel. |
| Purdum | Blaine | | 10 | 50.6 | | 89 | 22 | 19 | 7 | 50 | 0.65 | − 0.46 | 0.60 | 6.4 | 3 | 23 | 5 | 3 | nw. | T. C. Jackson. |
| Ravenna | Buffalo | 2,028 | 33 | 51.8 | +15.3 | 91 | 23 | 20 | 7 | 53 | 0.19 | − 1.05 | 0.19 | ..... | 1 | 22 | 8 | 1 | sw. | Erastus Smith. |
| Redcloud | Webster | 1,687 | 18 | 53.7 | +13.2 | 91 | 22† | 18 | 31 | 58 | T. | − 0.71 | T. | T. | 0 | 29 | 1 | 1 | s. | Chas. S. Ludlow. |
| St. Libory | Howard | 1,887 | 15 | | | | | | | | 0.30 | − 0.62 | 0.30 | 3.0 | 1 | 25 | 5 | 1 | se. | W. I. Meader. |
| St. Paul | ...do | 1,796 | 16 | 52.6 | +14.5 | 89 | 22† | 20 | 10 | 61 | 0.19 | − 0.70 | 0.19 | 2.0 | 1 | 29 | 1 | 1 | sw. | Paul Anderson. |
| Santee | Knox | | 22 | 52.8 | +18.4 | 99 | 22 | 22 | 14 | 50 | 0.28 | − 0.86 | 0.27 | 0.1 | 2 | 22 | 4 | 5 | ne. | E. G. Kendall. |
| Sargent | Custer | | 13 | | | | | | | | | | | | | | | | ..... | Jas. L. Ferguson. |
| Schuyler | Colfax | 1,357 | 17 | 52.4 | ..... | 91 | 22 | 22 | 7† | 48 | T. | − 0.81 | T. | 0.2 | 0 | 21 | 9 | 1 | s. | John T. Sumner. |
| Scottsbluff | Scottsbluff | 3,888 | 4 | 49.4 | | 85 | 22 | 17 | 10 | 52 | 0.33 | ..... | 0.19 | 1.9 | 2 | 26 | 4 | 1 | nw. | A. B. McCoskey. |
| Seward | Seward | 1,435 | 20 | 52.0[a] | +13.3 | 90[a] | 21 | 22 | 6 | 47[a] | 0.05 | − 1.12 | 0.05 | 0.5 | 1 | 28 | 2 | 1 | s. | Chi., Burl. & Quincy R. R. |
| Sheridan | Wheeler | | 2 | | | | | | | | 0.07 | ..... | 0.07 | 1.2 | 1 | 24 | 4 | 3 | nw. | J. C. Harris. |
| Sidney | Cheyenne | 4,093 | 18 | | | | | | | | 0.50 | − 0.38 | 0.50 | 4.0 | 1 | 30 | 0 | 1 | w. | John P. Fischer. |
| Springview | Keyapaha | | 17 | 51.0 | +17.2 | 99 | 22 | 20 | 7† | 43 | 0.65 | − 0.27 | 0.60 | 6.5 | 2 | 19 | 8 | 4 | nw. | C. L. Phelps. |
| Stanton | Stanton | 1,472 | 19 | 50.0 | +15.1 | 91 | 22 | 20 | 15† | 46 | T. | − 0.92 | T. | T. | 0 | 24 | 6 | 1 | sw. | Alfred Pont. |
| Stratton | Hitchcock | 2,804 | 15 | | | | | | | | 0.05 | − 1.06 | 0.05 | ..... | 1 | ..... | | | ..... | Miss Stella Vennum. |
| Superior | Nuckolls | 1,574 | 25 | | | | | | | | 0.00 | − 1.05 | 0.00 | 0.0 | 0 | ..... | | | ..... | F. V. Bishop. |
| Tablerock | Pawnee | 1,023 | 22 | | | | | | | | T. | − 1.20 | T. | T. | 0 | 28 | 2 | 1 | nw. | E. D. Howe. |
| Tecumseh | Johnson | 1,113 | 32 | 52.8 | +14.1 | 95 | 22 | 22 | 7 | 59 | T. | − 1.53 | T. | T. | 0 | 22 | 8 | 1 | s. | L. E. Pratt. |
| Tekamah | Burt | 1,060 | 20 | 51.4 | +14.3 | 88 | 23 | 21 | 10 | 48 | 0.00 | − 1.37 | 0.00 | 0.0 | 0 | 19 | 12 | 0 | nw. | Dr. A. D. Nesbit. |
| Turlington | Otoe | 1,214 | 18 | 54.2 | +15.9 | 91 | 22 | 25 | 10† | 46 | 0.16 | − 1.14 | 0.16 | 2.0 | 1 | 26 | 4 | 1 | sw. | Wm. N. Hunter. |
| University Farm‖ | Lancaster | | 25 | 53.4 | ..... | 90 | 22 | 23 | 15 | 50 | 0.08 | − 1.01 | 0.08 | ..... | 1 | 27 | 3 | 1 | ..... | S. W. Perin. |
| Valentine | Cherry | 2,613 | 22 | 49.1 | +17.2 | 87 | 22 | 17 | 10 | 45 | 0.86 | − 0.34 | 0.50 | 6.2 | 5 | 22 | 9 | 0 | w. | U. S. Weather Bureau. |
| Wahoo | Saunders | 1,187 | 8 | | | | | | | | 0.30 | ..... | 0.30 | 3.0 | 1 | 28 | 1 | 2 | se. | W. T. Mauck. |
| Wakefield | Dixon | 1,387 | 16 | 50.0 | +14.1 | 88 | 23 | 19 | 31 | 54 | 0.02 | − 0.94 | 0.02 | 0.0 | 1 | 24 | 5 | 2 | s. | I. H. Weaver. |
| Wallace | Lincoln | 3,116 | 14 | | | | | | | | T. | − 1.11 | T. | T. | 0 | 28 | 2 | 1 | s. | Chi., Burl. & Quincy R. R. |
| Walthill | Thurston | | 8 | 49.8[b] | ..... | 87[b] | 22† | 22[a] | 9 | 63[b] | T. | − 0.83 | T. | 0.0 | 0 | 24 | 1 | 6 | ..... | H. L. Keefe. |
| Watertown | Buffalo | 2,299 | 5 | | | | | | | | 0.20 | ..... | 0.20 | 2.0 | 1 | 21 | 8 | 2 | sw. | R. E. Swift. |
| Wauneta | Chase | | 11 | | | | | | | | 0.00 | − 1.35 | 0.00 | 0.0 | 0 | ..... | | | ..... | C. D. Fuller. |
| Weepingwater | Cass | 1,080 | 33 | 53.1 | ..... | 94 | 22 | 20 | 15 | 56 | 0.10 | − 1.19 | 0.10 | T. | 1 | 27 | 1 | 3 | s. | S. W. Orton. |
| Westpoint | Cuming | 1,313 | 24 | | | 92 | 22 | 23[b] | 10 | 52[b] | T. | − 1.20 | T. | 0.0 | 0 | 27 | 4 | 0 | s. | J. C. Elliott |
| Wilber | Saline | 1,325 | 16 | | | | | | | | 0.00 | − 0.84 | 0.00 | 0.0 | 0 | 16 | 11 | 4 | sw. | Chi., Burl. & Quincy R. R. |
| Wisner | Cumimg | 1,380 | 14 | | | | | | | | | | | | | | | | ..... | Hoff & Deily. |
| Woodlawn | Lancaster | | 5 | | | | | | | | 0.11 | ..... | 0.11 | T. | 1 | 23 | 7 | 1 | sw. | H. C. Kendall. |
| York | York | 1 606 | 21 | 53.0 | +14.1 | 91 | 22 | 21 | 10 | 50 | 0.13 | − 0.91 | 0.13 | 1.3 | 1 | 27 | 3 | 1 | sw. | A. T. Giauque. |

TABLE 1.—*Climatological data for March, 1910. District No. 6*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Iowa.* | | | | | | | | | | | | | | | | | | | | |
| Afton‡ | Union | 1,212 | 16 | 51.8 | +15.3 | 84 | 23† | 21 | 10† | 38 | T. | − 2.10 | T. | 0.0 | 0 | 23 | 5 | 3 | sw. | N. W. Rowell. |
| Allerton‡ | Wayne | 1,513 | 8 | 51.9 | +13.7 | 85 | 23 | 21 | 15 | 38 | 0.16 | − 2.29 | 0.13 | 0.0 | 2 | 28 | 2 | 1 | sw. | Mrs. Geo. Shriver. |
| Alton | Sioux | 1,305 | 5 | 48.5 | ..... | 86 | 23 | 22 | 6† | 50 | 0.02 | ..... | 0.02 | 0.0 | 1 | 24 | 3 | 4 | nw. | W. S. Slagle. |
| Atlantic | Cass | 1,164 | 19 | 51.3 | +16.6 | 87 | 26 | 21 | 15 | 43 | T. | − 1.75 | T. | 0.0 | 0 | 14 | 10 | 7 | sw. | Thos. H. Whitney. |
| Audubon‡ | Audubon | 1,301 | 16 | 50.2 | +16.0 | 83 | 23 | 24 | 10† | 39 | 0.00 | − 1.62 | 0.00 | 0.0 | 0 | 24 | 4 | 3 | sw. | Geo. E. Kellogg. |
| Bedford‡ | Taylor | ..... | 10 | 52.2 | +15.5 | 90 | 22 | 17 | 10 | 47 | 0.05 | − 2.27 | 0.04 | 0.0 | 2 | 27 | 1 | 3 | sw. | E. E. Healy. |
| Centerville | Appanoose | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.15 | ..... | 0.15 | 0.0 | 1 | 28 | 2 | 1 | sw. | Gordon Peacock, jr. |
| Chariton‡ | Lucas | 1,042 | 15 | 50.9 | +14.1 | 86 | 23† | 19 | 15 | 40 | T. | − 1.08 | T. | T. | 0 | 30 | 0 | 1 | sw. | C. C. Burr. |
| Clarinda | Page | 1,009 | 20 | 50.8 | +14.7 | 92 | 22 | 19 | 15 | 51 | 0.00 | − 1.86 | 0.00 | 0.0 | 0 | 23 | 5 | 3 | ne. | A. S. Van Sandt. |
| Corning‡ | Adams | 1,117 | 18 | 49.4[a] | +13.0 | 84[a] | 23 | 20[a] | 11 | 40[a] | T. | − 1.74 | T. | 0.0 | 0 | 26 | 3 | 2 | sw. | Jerome Smith. |
| Corydon‡ | Wayne | 1,101 | 17 | 51.0[c] | +13.7 | 84[b] | 23 | 22[c] | 10 | 39[c] | 0.34 | − 1.79 | 0.33 | 0.0 | 2 | ..... | ..... | ..... | sw. | Clara Miller. |
| Creston | Union | 1,312 | 5 | 49.6 | ..... | 85 | 23 | 19 | 15 | 43 | 0.04 | ..... | 0.04 | 0.0 | 1 | 28 | 1 | 2 | nw. | Edgar Stovall. |
| Cumberland | Cass | ..... | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | − 2.02 | T. | 0.0 | 0 | 27 | 1 | 3 | s. | J. H. Reppert. |
| Denison | Crawford | 1,180 | 16 | 50.0 | +16.3 | 86 | 23 | 20 | 10 | 46 | T. | − 1.51 | T. | 0.0 | 0 | 25 | 1 | 5 | s. | W. C. Van Ness. |
| Elliott | Montgomery | ..... | 5 | 51.2 | ..... | 87 | 26 | 21 | 11 | 45 | T. | ..... | T. | 0.0 | 0 | 27 | 4 | 0 | s. | Henry Barnes. |
| Greenfield | Adair | ..... | 17 | 51.0 | +16.5 | 85 | 23 | 21 | 10 | 39 | T. | − 2.08 | T. | 0.0 | 0 | 27 | 4 | 0 | sw. | R. B. Oldham. |
| Hancock | Pottawattamie | 1,113 | 5 | 48.2 | ..... | 84 | 23† | 20 | 10† | 45 | 0.00 | ..... | 0.00 | 0.0 | 0 | 27 | 3 | 1 | s. | G. C. Rogers. |
| Harlan‡ | Shelby | 1,192 | 11 | 50.0 | +14.7 | 86 | 23 | 20 | 15 | 45 | T. | − 1.48 | T. | 0.0 | 0 | 20 | 6 | 5 | w. | C. A. Reynolds. |
| Hopeville | Clarke | ..... | 19 | 51.5 | +15.8 | 85 | 23† | 22 | 10 | 39 | T. | − 1.78 | T. | 0.0 | 0 | 20 | 10 | 1 | sw. | M. T. Ashley. |
| Inwood‡ | Lyon | 1,474 | 6 | 48.0[a] | ..... | 87 | 23 | 19[d] | 14 | 50[d] | 0.06 | ..... | 0.03 | 0.0 | 3 | 27 | 0 | 4 | nw. | F. B. Hanson. |
| Lamoni | Decatur | ..... | 3 | 51.3 | ..... | 84 | 23 | 21 | 2† | 40 | 0.03 | ..... | 0.02 | 0.0 | 2 | 28 | 0 | 3 | s. | T. J. Fitzpatrick. |
| Larrabee | Cherokee | 1,266 | 20 | 48.2 | +17.5 | 84 | 23 | 20 | 14† | 50 | 0.02 | − 1.47 | 0.02 | 0.0 | 1 | ..... | ..... | ..... | ..... | H. B. Strever. |
| Le Mars‡ | Plymouth | 1,224 | 14 | 48.8 | +15.8 | 84 | 23 | 24 | 10† | 45 | 0.06 | − 1.54 | 0.04 | 0.0 | 2 | 22 | 7 | 2 | nw. | G. A. C. Clarke. |
| Lenox‡ | Taylor | 1,250 | 15 | 51.6 | +15.3 | 84 | 23† | 21 | 10 | 39 | 0.05 | − 1.70 | 0.05 | 0.0 | 1 | 28 | 2 | 1 | s. | J. L. Hurley. |
| Leon | Decatur | 1,120 | 8 | 51.8 | +13.8 | 84 | 23 | 22 | 10† | 36 | T. | − 2.76 | T. | 0.0 | 0 | 24 | 5 | 2 | s. | Morris Gardner. |
| Little Sioux‡ | Harrison | ..... | 5 | 52.3 | ..... | 90 | 19 | 19 | 14 | 47 | 0.00 | ..... | 0.00 | 0.0 | 0 | 24 | 4 | 3 | sw. | Geo. H. Gibson. |
| Logan‡ | ....do | 928 | 43 | 51.4 | +16.8 | 87 | 25 | 21 | 5† | 57 | T. | − 1.81 | T. | 0.0 | 0 | 21 | 10 | 0 | nw. | Glenn H. Stern. |
| Massena‡ | Cass | ..... | 4 | 48.6 | ..... | 84 | 23† | 16 | 15 | 46 | T. | ..... | T. | 0.0 | 0 | 25 | 3 | 3 | sw. | C. E. Smeltzer. |
| Mount Ayr‡ | Ringgold | 1,236 | 17 | 53.6 | +16.6 | 88 | 22 | 23 | 10 | 42 | 0.05 | − 2.01 | 0.05 | 0.0 | 1 | 24 | 3 | 4 | sw. | A. F. Beard. |
| Odebolt‡ | Sac | 1,356 | 13 | 50.4 | +15.6 | 86 | 23 | 23 | 10 | 46 | 0.00 | − 1.55 | 0.00 | 0.0 | 0 | 27 | 3 | 1 | ..... | E. Starner. |
| Onawa‡ | Monona | 1,051 | 10 | 52.2 | +14.7 | 87 | 23 | 23 | 10 | 50 | T. | − 1.37 | T. | 0.0 | 0 | 27 | 4 | 0 | se. | C. G. Perkins. |
| Pacific Junction‡ | Mills | 960 | 11 | 50.4 | +13.3 | 87 | 22 | 20 | 10 | 47 | T. | − 1.35 | T. | T. | 0 | 20 | 11 | 0 | s. | H. H. McCartney. |
| Rock Rapids‡ | Lyon | 1,358 | 11 | 45.6 | +14.0 | 85 | 23 | 10 | 1 | 50 | 0.00 | − 1.35 | 0.00 | 0.0 | 0 | 23 | 2 | 6 | ..... | W. C. Wyckoff. |
| Sheldon‡ | O'Brien | 1,422 | 10 | 48.4 | +17.0 | 86 | 23 | 21 | 10 | 49 | 0.04 | − 1.39 | 0.02 | 0.0 | 2 | 24 | 7 | 0 | s. | Dr. A. W. Beach. |
| Sibley | Osceola | 1,212 | 17 | 45.7 | +15.8 | 85 | 23 | 22 | 8† | 46 | 0.04 | − 1.42 | 0.04 | 0.0 | 1 | 18 | 12 | 1 | sw. | H. G. Doolittle. |
| Sioux Center‡ | Sioux | ..... | 11 | 48.6 | +15.4 | 84 | 23 | 23 | 14 | 41 | 0.02 | − 1.50 | 0.02 | 0.0 | 1 | 23 | 1 | 7 | s. | J. de Ruyter. |
| Sioux City | Woodbury | 1,135 | 21 | 50.6 | +18.0 | 88 | 23 | 26 | 10 | 42 | 0.03 | − 1.23 | 0.03 | 0.0 | 1 | 15 | 8 | 8 | s. | U. S. Weather Bureau. |
| Thurman‡ | Fremont | ..... | 13 | 51.4 | +13.6 | 88 | 22 | 20 | 10 | 48 | T. | − 1.66 | T. | T. | 0 | 22 | 9 | 0 | nw. | C. R. Paul. |
| Washta‡ | Cherokee | 1,157 | 12 | 47.8 | ..... | 86 | 23 | 17 | 15 | 55 | T. | − 0.96 | T. | 0.0 | 0 | 24 | 6 | 1 | s. | H. L. Felter. |
| Woodburn‡ | Clarke | 961 | 11 | 49.8 | ..... | 85 | 23 | 15 | 15 | 51 | T. | − 2.17 | T. | 0.0 | 0 | 25 | 4 | 2 | sw. | C. B. McDonough. |
| *Kansas.* | | | | | | | | | | | | | | | | | | | | |
| Abilene | Dickinson | 1,157 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | − 1.61 | T. | T. | 0 | 17 | 13 | 1 | s. | I. H. Sherman. |
| Agricultural College | Riley | 1,109 | 52 | 56.0 | +15.0 | 93 | 22 | 24 | 7 | 54 | 0.01 | − 1.36 | 0.01 | 0.0 | 1 | 24 | 6 | 1 | s. | Prof. J. O. Hamilton. |
| Alton | Osborne | 1,651 | 8 | 54.4 | ..... | 93 | 23 | 22 | 31 | 58 | T. | − 1.13 | T. | 0.0 | 0 | 25 | 6 | 0 | s. | H. A. Storer. |
| Atchison | Atchison | 973 | 19 | 57.2 | +16.7 | 93 | 23 | 25 | 10 | 44 | T. | − 2.22 | T. | T. | 0 | 26 | 3 | 2 | s. | M. F. Troxell. |
| Baker | Brown | 1,182 | 10 | 54.2 | ..... | 90 | 22 | 17 | 1 | 51 | T. | ..... | T. | T. | 0 | 12 | 1 | 18 | s. | E. A. Bastien. |
| Beloit | Mitchell | 1,383 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | − 0.79 | 0.00 | 0.0 | 0 | 25 | 0 | 6 | se. | W. H. Houghton. |
| Blakeman | Rawlins | 2,894 | 13 | 51.2 | ..... | 89 | 22† | 20 | 7† | 59 | 0.04 | − 0.81 | 0.04 | 0.0 | 1 | 25 | 6 | 0 | nw. | C. L. Henderson. |
| Blue Rapids | Marshall | 1,105 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 24 | 2 | 5 | ..... | M. Norton. |
| Centralia | Nemaha | 1,256 | 1 | 53.6[a] | ..... | 91 | 22 | 21[a] | 15 | 53[a] | T. | ..... | T. | T. | 0 | 25 | 5 | 1 | sw. | L. E. Hasen. |
| Chapman | Dickinson | 1,123 | 6 | 55.9 | ..... | 92 | 25 | 22 | 15 | 51 | 0.00 | ..... | 0.00 | 0.0 | 0 | 25 | 4 | 2 | s. | R. McShea. |
| Clay Center | Clay | 1,203 | 9 | 55.8 | ..... | 92 | 22† | 24 | 15 | 55 | 0.00 | ..... | 0.00 | 0.0 | 0 | 20 | 4 | 7 | s. | O. L. Slade. |
| Colby | Thomas | 3,138 | 19 | 53.6 | +14.5 | 90 | 19 | 18 | 10 | 52 | 0.13 | − 0.58 | 0.13 | 0.0 | 1 | 27 | 4 | 0 | sw. | R. M. Chelf. |
| Concordia | Cloud | 1,398 | 26 | 55.6 | +14.9 | 89 | 23 | 26 | 10 | 49 | T. | − 1.48 | T. | T. | 0 | 18 | 13 | 0 | sw. | U. S. Weather Bureau. |
| Densmore | Norton | 2,200 | 1 | 53.6 | ..... | 92 | 22† | 19 | 10 | 56 | 0.00 | ..... | 0.00 | 0.0 | 0 | 26 | 5 | 0 | sw. | F. S. Griffith. |
| Dresden | Decatur | 2,731 | 16 | 54.1 | +15.1 | 91 | 23 | 14 | 14 | 53 | T. | − 0.82 | T. | 0.0 | 0 | 24 | 6 | 1 | sw. | Jacob Back. |
| Ellsworth | Ellsworth | 1,537 | 6 | 55.8 | ..... | 94 | 24 | 18 | 10 | 60 | 0.08 | ..... | 0.08 | 0.0 | 1 | 20 | 11 | 0 | s. | Geo. Seits. |
| Enterprise | Dickinson | 1,144 | 8 | 56.5[a] | ..... | 93[a] | 25 | 22[a] | 8† | 60[a] | 0.00 | − 1.61 | 0.00 | 0.0 | 0 | 21[a] | 6[a] | 3[a] | s. | C. F. Wagner. |
| Eskridge | Wabaunsee | 1,412 | 4 | 57.9 | ..... | 91 | 22 | 26 | 10 | 47 | T. | ..... | T. | 0.2 | 0 | 23 | 7 | 1 | s. | Geo. D. West. |
| Farnsworth | Lane | 2,850 | 9 | 54.4 | ..... | 91 | 22† | 16 | 10 | 61 | 0.00 | ..... | 0.00 | 0.0 | 0 | 19 | 12 | 0 | sw. | C. M. Jennison. |
| Ft. Scott | Bourbon | 857 | 35 | 58.8 | +12.6 | 92 | 22 | 23 | 15 | 44 | 0.57 | − 1.86 | 0.37 | T. | 2 | 29 | 0 | 2 | sw. | E. A. Shaver. |
| Frankfort | Marshall | 1,146 | 16 | 53.9 | +12.7 | 92 | 22 | 20 | 15 | 55 | T. | − 2.11 | T. | T. | 0 | 24 | 6 | 1 | sw. | E. C. Dunham. |
| Garnett | Anderson | 950 | 4 | 56.9 | ..... | 87 | 24 | 25 | 10 | 44 | 0.35 | ..... | 0.20 | 1.8 | 3 | 18 | 12 | 1 | sw. | D. D. Judy. |
| Goodland | Sherman | 3,687 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | G. L. Calvert. |
| Gove** | Gove | 2,750 | 21 | 53.4 | +14.3 | 89 | 23 | 24 | 10† | .... | 0.00 | − 0.75 | 0.00 | 0.0 | 0 | 17 | 12 | 2 | sw. | Jesse Royer. |
| Hanover | Washington | 1,225 | 13 | 55.6 | ..... | 92 | 22 | 23 | 7† | 53 | 0.00 | − 1.43 | 0.00 | 0.0 | 0 | 29 | 0 | 2 | s. | August Jaedicke, jr. |
| Harrison | Jewell | 1,804 | 9 | 53.0 | ..... | 90 | 22† | 19 | 31 | 54 | T. | ..... | T. | T. | 0 | 29 | 2 | 0 | s. | Mahlon Tegley. |
| Hays | Ellis | 2,000 | 42 | 53.6 | +12.3 | 92 | 25 | 18 | 10† | 56 | 0.03 | − 1.02 | 0.03 | 0.0 | 1 | 20 | 11 | 0 | se. | G. K. Helder. |
| Hill City | Graham | 2,134 | 2 | 54.3 | ..... | 92 | 24 | 15 | 10 | 58 | 0.00 | ..... | 0.00 | 0.0 | 0 | 28 | 3 | 0 | nw. | I. R. Mort. |
| Horton | Brown | 1,188 | 21 | 54.9 | +15.4 | 90 | 22 | 25 | 10 | 45 | T. | − 1.95 | T. | T. | 0 | 28 | 2 | 1 | sw. | Mrs. S. C. Belden. |
| Hoxie | Sheridan | 2,700 | 12 | 54.2 | +14.8 | 90 | 23 | 19 | 10 | 51 | 0.00 | − 0.82 | 0.00 | 0.0 | 0 | 28 | 3 | 0 | sw. | C. T. Dallam. |
| Jewell | Jewell | 1,540 | 5 | 54.8 | ..... | 91 | 21 | 25 | 6† | 56 | 0.00 | ..... | 0.00 | 0.0 | 0 | 24 | 7 | 0 | s. | C. A. Shinn. |
| Lawrence | Douglas | 997 | 42 | 56.6 | +14.9 | 91 | 22 | 26 | 9† | 46 | 0.05 | − 2.37 | 0.03 | 0.3 | 2 | 24 | 6 | 1 | sw. | Prof. H. P. Cady. |
| Lebanon | Smith | 1,812 | 12 | 54.6 | ..... | 92 | 25 | 27 | 31 | 50 | 0.00 | − 0.62 | 0.00 | 0.0 | 0 | 25 | 3 | 3 | s. | Earl V. Bower. |
| Lindsborg | McPherson | 1,333 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 30 | 0 | 1 | s. | J. R. Lynch. |
| Mankato | Jewell | 1,784 | 1 | 55.4 | ..... | 89 | 22 | 22 | 10 | 50 | T. | ..... | T. | T. | 0 | 24 | 5 | 2 | s. | R. M. Cauthorn. |
| Minneapolis | Ottawa | 1,259 | 20 | 55.9[b] | +15.4 | 91[b] | 25 | 23[b] | 10 | 52[b] | T. | − 1.08 | T. | 0.0 | 0 | 25 | 5 | 1 | n. | J. L. Steele. |
| Moran | Allen | 1,098 | 14 | 58.6 | +13.6 | 92 | 22 | 25 | 15 | 47 | 0.15 | − 2.43 | 0.10 | 1.0 | 2 | 28 | 2 | 1 | sw. | C. J. Norton. |
| Matoma | Osborne | 1,834 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 28 | 3 | 0 | s. | C. O. Hunt. |
| Norton | Norton | 2,284 | 12 | 55.0 | +16.0 | 92 | 23 | 26 | 15 | 48 | 0.00 | − 1.02 | 0.00 | 0.0 | 0 | 29 | 1 | 1 | sw. | Sim Sleffel. |
| Oberlin | Decatur | 2,539 | 23 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | − 1.37 | 0.00 | 0.0 | 0 | 29 | 2 | 0 | nw. | I. K. Huber. |
| Oketo‡ | Marshall | 1,194 | 2 | 54.2[c] | ..... | 89[b] | 22† | 23[c] | 7† | 48[c] | T. | ..... | T. | 0.0 | 0 | 19[a] | 8[a] | 3[a] | s. | J. A. Church |
| Olathe | Johnson | 1,032 | 15 | 56.1 | +11.4 | 92 | 22 | 23 | 15 | 45 | 0.14 | − 2.51 | 0.11 | T. | 2 | 27 | 2 | 2 | sw. | Dr. S. B. S. Wilson. |
| Osage City | Osage | 1,081 | 11 | 55.8[c] | ..... | 90[b] | 22 | 21[b] | 15 | 51[c] | T. | − 2.16 | T. | T. | 0 | 18[b] | 9[b] | 2[b] | s. | W. C. White. |
| Ottawa | Franklin | 926 | 16 | 56.2 | +11.3 | 93 | 22 | 17 | 15 | 52 | 0.14 | − 2.48 | 0.11 | 1.1 | 2 | 24 | 6 | 1 | nw. | Dr. W. J. Newton. |
| Phillipsburg | Phillips | 1,939 | 19 | 55.4 | +16.3 | 92 | 23 | 22 | 31 | 54 | 0.50 | − 0.74 | 0.00 | 0.0 | 0 | 29 | 2 | 0 | se. | N. E. Bailey. |
| Plainville | Rooks | 2,156 | 5 | 55.2 | ..... | 92 | 24 | 15 | 10 | 58 | 0.00 | ..... | 0.00 | 0.0 | 0 | 26 | 5 | 0 | s. | John Pedroja. |
| Pleasanton | Linn | 862 | 8 | 57.0 | ..... | 89 | 22 | 23 | 15 | 41 | 0.44 | ..... | 0.16 | 0.0 | 3 | 26 | 4 | 1 | sw. | B. F. Blaker. |
| Republic | Republic | 1,495 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Grafton Nutter. |
| Russell | Russell | 1,834 | 11 | 55.6 | +13.4 | 98 | 23 | 22 | 31 | 54 | 0.00 | − 0.99 | 0.00 | 0.0 | 0 | 26 | 4 | 1 | s. | Robert Brebner. |
| St. Francis | Cheyenne | 3,288 | 2 | 52.4 | ..... | 90 | 22 | 20 | 10 | 55 | T. | ..... | T. | 0.0 | 0 | 17 | 14 | 0 | nw. | J. E. Uplinger. |
| Salina | Saline | 1,227 | 26 | 55.4[a] | +13.6 | 90[a] | 22† | 23[a] | 10 | 49[a] | T. | − 1.15 | T. | 0.0 | 0 | 24 | 6 | 1 | sw. | Prof. A. W. Jones. |
| Scott | Scott | 2,971 | 4 | 54.1 | ..... | 91 | 23 | 20 | 7 | 55 | T. | ..... | T. | 0.0 | 0 | 25 | 6 | 0 | s. | J. P. Loughran. |
| Smith Center | Smith | 1,800 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 29 | 2 | 0 | ..... | W. H. Nelson. |
| Topeka | Shawnee | 997 | 24 | 57.2 | +16.3 | 90 | 22 | 27 | 15 | 44 | 0.06 | − 2.23 | 0.05 | T. | 2 | 28 | 2 | 1 | s. | U. S. Weather Bureau. |
| Valley Falls | Jefferson | 913 | 11 | 55.8 | +13.5 | 92 | 22 | 23 | 10† | 49 | T. | − 1.47 | T. | T. | 0 | 28 | 1 | 2 | n. | Miss Nettie Maxwell. |
| Vinland‡ | Douglas | 880 | 1 | 56.2 | ..... | 90 | 22 | 20 | 15 | 46 | 0.11 | ..... | 0.07 | T. | 2 | 22 | 7 | 2 | sw. | A. Schick. |

TABLE 1.—*Climatological data for March, 1910. District No. 6*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Kansas*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Wakeeney | Trego | 2,456 | 27 | 55.4 | +15.2 | 89 | 23† | 19 | 10 | 48 | 0.00 | − 0.78 | 0.00 | 0.0 | 0 | 31 | 0 | 0 | s. | A. S. Peacock. |
| Wallace | Wallace | 3,303 | 40 | 51.9 | ..... | 87 | 22† | 12 | 10 | 57 | 0.00 | − 0.52 | 0.00 | 0.0 | 0 | 9 | 22 | 0 | sw. | M. T. Griggs. |
| Wamego‖ | Pottawatomie | 1,092 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | − 1.59 | T. | T. | 0 | 24 | 6 | 1 | sw. | M. L. Stone. |
| *Missouri.* | | | | | | | | | | | | | | | | | | | | |
| Amoret | Bates | 850 | 1 | 57.6 | +13.7 | 91 | 22 | 23 | 15 | 42 | 0.41 | − 1.64 | 0.30 | 0.3 | 2 | 23 | 5 | 3 | sw. | Darby Fruit Farm. |
| Appleton City | St. Clair | 853 | 20 | 55.8 | +12.0 | 90 | 22 | 24 | 15 | 48 | 0.53 | − 2.83 | 0.45 | 0.5 | 3 | 25 | 3 | 3 | s. | T. C. Brown. |
| Arlington | Phelps | 695 | 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.30 | − 2.67 | 0.30 | 0.0 | 1 | 22 | 5 | 4 | s. | P. W. Andres. |
| Arthur | Vernon | 767 | 18 | 56.8 | +13.0 | 84 | 22† | 22 | 15 | 43 | 0.50 | − 2.49 | 0.42 | 0.0 | 2 | 22 | 7 | 2 | sw. | J. T. Armstrong. |
| Avalon | Livingston | ..... | 25 | 55.9 | +14.1 | 91 | 22 | 24 | 15† | 44 | 0.05 | − 2.60 | 0.05 | 0.0 | 1 | 27 | 1[a] | 1[a] | sw. | F. G. Ashbaugh. |
| Bagnell | Miller | 504 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.50 | − 2.83 | 0.50 | 0.0 | 1 | 21 | 7 | 3 | w. | W. S. Brockman. |
| Bethany | Harrison | 881 | 20 | 51.8 | +13.1 | 85 | 22† | 20 | 15 | 43 | T. | − 2.42 | T. | 0.0 | 0 | 29 | 2 | 0 | nw.[a] | W. H. Skinner. |
| Bolivar | Polk | 1,070 | 22 | 57.5 | +11.2 | 90 | 22 | 20 | 15 | 44 | 1.86 | − 1.21 | 1.20 | 0.0 | 5 | 26 | 3 | 2 | sw. | E. Waltz. |
| Boonville | Cooper | 600 | 34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.64 | − 2.50 | 0.54 | T. | 2 | 20 | 4 | 7 | sw. | C. Randecker. |
| Brunswick | Chariton | 652 | 32 | 55.6 | +14.6 | 92 | 22 | 22 | 15† | 51 | 0.47 | − 1.96 | 0.47 | 0.0 | 1 | 19 | 7 | 5 | sw. | Louis Benecke. |
| Clinton | Henry | 800 | 24 | 58.4 | ..... | 92 | 22 | 25 | 15 | 40 | 0.71 | − 1.93 | 0.38 | 0.0 | 5 | 28 | 2 | 1 | s. | Dr. G. W. Menees. |
| Columbia | Boone | 784 | 21 | 55.8 | +14.4 | 90 | 22 | 20 | 15 | 43 | 0.64 | − 2.39 | 0.39 | T. | 5 | 27 | 2 | 2 | s. | U. S. Weather Bureau. |
| Conception‖ | Nodaway | 982 | 26 | 54.8 | +16.5 | 90 | 22 | 24 | 10 | 40 | 0.04 | − 1.66 | 0.04 | T. | 1 | 24 | 5 | 2 | sw. | Fr. Adhelm Hess. |
| Darksville | Randolph | 826 | 19 | 54.6[c] | +14.0 | 89[c] | 22 | 21[c] | 15 | 37[c] | 0.67 | − 2.05 | 0.47 | 0.0 | 2 | 21[c] | 6[c] | 1[c] | s.[c] | W. H. Broaddus. |
| El Dorado Springs | Cedar | 755 | 5 | 58.4 | ..... | 91 | 22 | 24 | 15 | 48 | 1.15 | − 1.00 | 0.85 | T. | 2 | 22 | 8 | 1 | sw. | Samuel Graham. |
| Fairport | De Kalb | 920 | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.02 | − 2.12 | 0.02 | 0.0 | 1 | 22 | 5 | 4 | sw. | J. W. Lincoln. |
| Fayette‖ | Howard | 725 | 27 | 56.4 | +14.4 | 92 | 22 | 21 | 15 | 41 | 0.56 | − 2.03 | 0.53 | 0.5 | 2 | 29 | 0 | 2 | ..... | Prof. T. Berry Smith. |
| Fulton | Callaway | 818 | 19 | 55.2[a] | + 9.9 | 91[a] | 22 | 19[a] | 15 | 45[a] | 0.47 | − 2.66 | 0.32 | 0.2 | 3 | 11 | 19 | 1 | ..... | Dr. J. L. Brenneman. |
| Gallatin | Daviess | 803 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Dr. W. P. Young. |
| Glasgow | Howard | 618 | 33 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.52 | − 2.01 | 0.52 | 0.0 | 1 | 16 | 12 | 3 | se. | J. J. Shaughnessy. |
| Grant City | Worth | 1,130 | 18 | 53.8 | ..... | 90 | 22 | 23 | 15 | 43 | 0.69 | − 2.18 | 0.09 | 0.0 | 1 | 28 | 0 | 3 | s. | W. H. Campbell. |
| Harrisonville | Cass | 912 | 38 | 54.4 | +13.9 | 91 | 22 | 23 | 16 | 46 | 0.62 | − 1.48 | 0.25 | 1.0 | 3 | 18 | 4 | 9 | sw. | A. J. Sharp. |
| Hazelhurst | Livingston | ..... | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.05 | − 2.14 | 0.05 | 0.0 | 1 | ..... | ..... | ..... | ..... | W. H. Baker. |
| Hermann | Gasconade | 482 | 36 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.34 | − 2.80 | 0.30 | 0.0 | 2 | 15 | 11 | 5 | s. | C. T. Maushund. |
| Houston | Texas | 1,280 | 18 | 56.6 | + 9.6 | 88 | 22 | 16 | 15 | 45 | 1.71 | − 1.22 | 0.95 | 2.0 | 4 | 17 | 13 | 1 | s. | E. Dempsey. |
| Huntsville | Randolph | 790 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.65 | − 0.90 | 0.65 | 0.0 | 1 | ..... | ..... | ..... | ..... | F. H. Hammett. |
| Jefferson City | Cole | 628 | 29 | 56.2 | +13.3 | 91 | 22 | 22 | 15 | 51 | 0.28 | − 2.87 | 0.17 | 0.0 | 3 | 26 | 3 | 2 | s. | Miss Emma Swift. |
| Kansas City | Jackson | 963 | 21 | 58.2 | +17.4 | 90 | 22 | 29 | 10 | 36 | 0.08 | − 2.74 | 0.05 | T. | 2 | 26 | 3 | 2 | s. | U. S. Weather Bureau. |
| Kidder | Caldwell | 1,017 | 20 | 55.6 | +15.2 | 89 | 22 | 25 | 15† | 36 | 0.02 | − 2.53 | 0.02 | 0.0 | 1 | 27 | 4 | 0 | sw. | J. F. Sharp. |
| Lamonte | Pettis | 863 | 22 | 55.3 | ..... | 89 | 22 | 20 | 15 | 42 | C. 80 | − 0.60 | 0.32 | 0.5 | 5 | 23 | 8 | 0 | sw. | J. R. Wade. |
| Lebanon | Laclede | 1,265 | 22 | 57.4 | +11.8 | 88 | 23 | 22 | 15 | 41 | 1.51 | − 2.50 | 0.71 | 1.0 | 4 | 25 | 4 | 2 | w. | M. W. Serl. |
| Lexington | Lafayette | 813 | 27 | 57.6 | +15.1 | 92 | 22 | 23 | 15 | 36 | 0.08 | − 2.17 | 0.08 | 0.0 | 1 | 25 | 2 | 4 | s. | J. W. Keithley. |
| Liberty | Clay | 864 | 22 | 58.0[d] | ..... | 91[d] | 22 | 23[a] | 15 | 45[d] | T. | − 2.48 | T. | T. | 0 | 25[a] | 3[a] | 2[a] | sw.[a] | W. C. Wilmott. |
| Lockwood | Dade | 1,088 | 16 | 58.6 | ..... | 85 | 23† | 27 | 15 | 34 | 1.60 | − 0.41 | 1.19 | T. | 2 | 23 | 3 | 5 | sw. | C. S. Crow. |
| Marshall | Saline | 779 | 20 | 55.8[a] | +13.8 | 92[a] | 21 | 23[a] | 15 | 42[a] | 0.60[a] | − 2.08 | 0.45[a] | T.[a] | 2[a] | 28[a] | 0[a] | 2[a] | sw. | Dr. W. H. Black. |
| Marshfield | Webster | 1,492 | 2 | 59.1[c] | ..... | 85[c] | 22† | 28[c] | 9 | 40[c] | 0.92 | ..... | 0.72 | T. | 2 | 15[c] | 2[c] | 11[c] | sw.[d] | Dr. J. P. Keller. |
| Maryville | Nodaway | 1,160 | 20 | 52.7 | +16.1 | 92 | 22 | 23 | 11† | 48 | 0.29 | − 1.85 | 0.21 | T. | 2 | 27 | 2 | 2 | s. | J. R. Brink. |
| Mount Vernon | Lawrence | 1,480 | 34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Dr. O. H. Brown. |
| Nevada | Vernon | 860 | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.74 | − 2.30 | 0.42 | T. | 3 | 29 | 0 | 2 | sw. | C. Jewell. |
| New Palestine | Cooper | 795 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | A. I. Zeigle. |
| Oregon | Holt | 1,113 | 55 | 53.8 | +15.0 | 89 | 22 | 23 | 15† | 44 | T. | − 2.09 | T. | T. | 0 | 27 | 1 | 3 | sw. | Tom Curry. |
| Osceola | St. Clair | 738 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.20 | − 1.08 | 0.95 | 0.0 | 3 | 20 | 1 | 1 | sw. | W. E. Matthews. |
| Rolla | Phelps | 1,092 | 29 | 58.1 | ..... | 87 | 22 | 22 | 15 | 39 | 0.30 | − 3.38 | 0.12 | 0.5 | 4 | 24 | 5 | 2 | sw. | Prof. P. J. Wilkins. |
| St. Charles | St. Charles | 614 | 32 | 57.0 | +13.6 | 91 | 23 | 23 | 15 | 42 | 0.13 | − 2.12 | 0.09 | 0.0 | 2 | 20 | 9 | 2 | s. | L. C. Saeger. |
| St. Joseph | Buchanan | 825 | 39 | 56.4 | ..... | 89 | 22 | 26 | 10 | 42 | T. | − 2.01 | T. | T. | 0 | 24 | 5 | 2 | s. | U. S. Weather Bureau. |
| St. Louis | ..... | 567 | 39 | 57.5 | +14.0 | 87 | 23 | 29 | 15 | 37 | 0.14 | − 3.29 | 0.10 | 0.0 | 3 | 22 | 7 | 2 | sw. | U. S. Weather Bureau. |
| Sublett | Adair | 1,000 | 30 | 52.6 | ..... | 85 | 23 | 19 | 15 | 45 | 0.10 | − 2.78 | 0.10 | 0.0 | 1 | 22 | 8 | 1 | se. | Lewis Spriggs. |
| Trenton | Grundy | 812 | 15 | 53.1 | +12.7 | 84 | 22† | 23 | 15† | 41 | ..... | ..... | ..... | ..... | ..... | 25 | 1 | 5 | se. | J. H. Flesher. |
| Unionville | Putnam | 1,072 | 17 | 51.0 | +13.1 | 86 | 23 | 20 | 15† | 43 | 0.10 | − 2.30 | 0.06 | T. | 2 | 22 | 5 | 4 | s. | Geo. W. Davis. |
| Warrensburg | Johnson | 853 | 32 | 58.3 | +15.3 | 92 | 22 | 24 | 15 | 38 | 0.29 | − 2.10 | 0.15 | 1.0 | 3 | 28 | 1 | 2 | sw. | A. F. Smithson. |
| Warrenton | Warren | 865 | 20 | 54.8 | +13.3 | 88 | 22† | 22 | 15 | 53 | 0.30 | − 3.62 | 0.18 | 0.0 | 3 | 16 | 6 | 9 | s. | Dr. John H. Frick. |
| Warsaw | Benton | 700 | 6 | 59.6 | ..... | 96 | 23 | 20 | 15 | 50 | 0.91 | − 0.72 | 0.80 | T. | 3 | 26 | 4 | 1 | sw. | Dr. J. R. Smith. |
| Wheatland | Hickory | 920 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.34 | − 2.09 | 0.84 | 1.0 | 2 | 25 | 5 | 1 | s. | Mrs. S. A. Jackson. |

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March. 1910. District No. 6, Missouri Valley.*

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Wyoming.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arapahoe | Big Horn | | | | | | | | | .25 | | | | | | | | | | | | | | | | | .12 | | | | | 0.37 |
| Barnum | Powder | | | | | | | | | | | | | | | | | | | | | | | T. | | | .11 | | | | | 0.11 |
| Basin | Big Horn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bennett | North Platte | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | T. | | .23 | | 0.41 |
| Big Creek | ...do | T. | | | | | | | | .13 | | | | | | | | | | | | | | | | | | | | | | |
| Casper | ...do | | | | | | | | T. | .02 | | | | | | | | | | T. | | | | | | | T. | | .02 | 1.41 | | 1.45 |
| Cheyenne | South Platte | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .60 | | 0.60 |
| Chugwater | North Platte | | | | | | | | | .25 | | | | | | | | | | T. | | | | T. | | | | | .16 | | | 0.41 |
| Clark | Clark's Fork | T. | | | | | | | | .10 | | | | | | | | | | | | T. | | | | | | | .09 | T. | | 0.19 |
| Cody | Big Horn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crystal Lake | South Platte | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | .20 | .40 | T. | 0.60 |
| Dome Lake | Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Douglass | North Platte | | | | | | | | | | | | | | | | | | | | | | .06 | T. | | | T. | T. | | T. | | 0.18 |
| Dubois | Big Horn | T. | | | | | | | | .12 | | | | | | | | | | | | | .20 | | | | | | T. | .10 | | 0.40 |
| Eaton's Ranch | Tongue | | | | | | | | | .10 | | | | | | | | | | | | | | T. | | T. | | | | .21 | | 0.21 |
| Echeta | Powder | | | | | | | | | | | | | | | | | | | | | | | | | | .08 | | | .26 | | 0.34 |
| Elk Mountain | North Platte | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .23 | | 0.35 |
| Encampment | ...do | | | | | | | | | .12 | | | | | | | | | | | | | | | | | .30 | | .02 | | | 0.42 |
| Ervay | ...do | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | .02 | | T. | .12 | 0.14 |
| Fort Laramie | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fox Creek Station | ...do | | | | | | | | | T. | | | | | | | | | | | | | | | | | T. | | | .10 | | 0.10 |
| Gillette | Powder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granite Canyon | South Platte | | | | | | | | T. | .08 | | | | | | | | | | | | | | | | T. | | | | .24 | | 0.32 |
| Hunters Station | Powder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyattville | Big Horn | | | | | | | | | .17 | | | | | | | | | | | | | | | | | | | | .30 | | 0.47 |
| Kirtley | Niobrara | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kirwin | Big Horn | | | | | | | | T. | | | | | | | | | | | | | | | | | | .16 | .18 | | .69 | | 1.03 |
| Knowles | Belle Fourche | | | | | | | | | T. | .02 | | | | | | | | | | | | | T. | | | .47 | | | .10 | | 0.59 |
| Lander | Big Horn | | | | | | | | | .03 | | | | | | | | | | | | | | | | | T. | | | .30 | | 0.33 |
| Laramie | North Platte | | | | | | | | | | .05 | | | | | | | | | | | | | | | | .03 | | | .18 | | 0.26 |
| Leo | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lolobama Ranch | Big Horn | | | | | | | | | .03 | | | | | | | | | | | | | | .15 | | | T. | | .10 | | | 0.28 |
| Lovell | ...do | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | .60 | | 0.90 |
| Lusk | Niobrara | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.25 | | 1.25 |
| Luther | South Platte | | | | | | | | | | | | | | | | | | | | | | | | | | .33 | | | .70 | | 1.13 |
| Manville | Niobrara | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | | .10 | 0.10 |
| Moorcroft | Belle Fourche | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .03 | | 0.03 |
| Moore | North Platte | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .35 | | .30 | | 0.65 |
| Newcastle | S. Fork Cheyenne | | | | | | | | | | | | | | | | | | | | | | | | | | .06 | | | .08 | | 0.33 |
| Pathfinder | North Platte | | | | | | | | | .19 | | | | | | | | | | | | | | | | | T. | | | .80 | | 0.80 |
| Phillips | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pine Bluff | South Platte | | | | | | | | | | | | | | | | | | | | | | .05 | | | | | | | | | 0.05 |
| Powell | Big Horn | | | | | | | | | .02 | | | | | | | | | | | | | | T. | | | .04 | T. | | .10 | | 0.16 |
| Rawlins | North Platte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Riverton | Big Horn | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | | .10 | | 0.10 |
| Saratoga | North Platte | | | | | | | | | | | | | | | | T. | | | | | | | .35 | | | T. | | T. | .01 | T. | 0.36 |
| Sheridan | Tongue | | | | T. | | | | | T. | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Shoshone Dam | Big Horn | | | | | | | | | | | | | | | | | | | | | | | .03 | | | T. | | | | | 0.08 |
| Soldiers' Home | Powder | | | | | | | | | .05 | | | | | | | | | | | | | | .06 | | | .42 | | | .51 | | 0.99 |
| South Pass City | North Platte | | | | | | | | | | | | | | | | | | | | | | | | | | .36 | | | .14 | | 0.50 |
| Thermopolis | Big Horn | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .16 | | 0.25 |
| Upton | Cheyenne | .09 | | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | .01 | | 0.04 |
| Valley | Big Horn | | | | | | | | | .01 | | | | | | | | | | | | | | T. | | | T. | | | | | T. |
| Verona | Tongue | | | | | | | | T. | | | | | | | | | | | | | | | | | | .20 | | T. | .15 | .10 | 0.45 |
| Wiley | Big Horn | | | | | | | | | | | | | | | | | | | | | | | | | | .01 | | | .62 | | 0.63 |
| Wyncote | North Platte | | | | | | | | | | | | | | | | | | | | | .01 | .02 | .02 | .01 | | .01 | T. | .45 | | T. | 0.82 |
| Yellowstone Park | Yellowstone | .04 | .07 | .02 | | | | | .04 | .13 | | | | | | | | | | | | | | | | | | | | | | |
| (1) Fountain Hotel | Madison | | | | | | | | | | | | | | | | | | | | | .04 | .03 | | .60 | | | | .30 | | .15 | 1.12 |
| (2) Grand Canyon | Yellowstone | | | | | | | | | | | | | | | | | | | | | | T. | .21 | .04 | | .09 | .27 | .07 | | .39 | 1.19 |
| (3) Lake Hotel | ...do | .04 | T. | | | | | | T. | .08 | | | | | | | | | | | | | | .13 | .20 | | .17 | | | | T. | 0.50 |
| (4) Norris Basin | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (5) Riverside | Madison | | | | | | | | | | | | | | | | | | | | | | | | .20 | | .10 | .12 | T. | | .11 | 0.93 |
| (6) Soda Butte | Yellowstone | | | | | | | | | .40 | | | | | | | | | | | | | | .23 | | | .10 | .15 | | | | 0.80 |
| (7) Sylvan Pass | Big Horn | | .22 | | | | | | .10 | | | | | | | | | | | | | | | .34 | .28 | | .09 | .09 | | | | 1.05 |
| (8) Thumb | Yellowstone | .15 | | | | | | | | .10 | | | | | | | | | | | | .01 | | | | | .03 | | .02 | | | 0.06 |
| (9) Tower Falls | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (10) Upper Gey. Basin | Madison | | | | | | | | | | | | | | | | | | | | | | | .12 | | | 1.17 | .07 | | .15 | | 1.51 |
| *Montana.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adams | Yellowstone | | | | | | | | T. | | | | | | | | | T. | | | | | T. | | | | | | .03 | .20 | | 0.23 |
| Adel | Missouri | | | | | | | | T. | .01 | | | | | | | | T. | | | | | | T. | .12 | | T. | | T. | .49 | T. | 0.62 |
| Agricultural College | Gallatin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Augusta | Sun River | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | 1.55 | | | 1.69 |
| Babb | Milk River | T. | | T. | 14 | | | | | | | | | | | | | | | T. | | T. | .08 | .05 | | | | | T. | | .05 | 0.41 |
| Bald Butte | Missouri | .07 | | .12 | .03 | | | | T. | .02 | | | | | | | | | | | | | | | | | | | .20 | .18 | .07 | 0.70 |
| Big Creek | Yellowstone | | | | | | | | | .25 | | | | | | | | | | | | | | | | | | | | | | |
| Big Timber | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | .12 | | T. | 0.46 |
| Big Timber Creek | ...do | .30 | | .04 | | | | | | | | | | | | | | | | | | | | .05 | | | T. | | | T. | | 0.05 |
| Billings | ...do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Boulder Nursery | Jefferson | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | |
| Bowen | ...do | .16 | | .16 | | | | | | | | | | | | | | .02 | | 14 | | | 15 | .02 | .06 | | | | .67 | | .03 | 0.81 |
| Bridger | Yellowstone | | | | | | | | | | | | | | | | | | | | | | | .11 | | | | | | | | 0.11 |
| Broadview Exp. Sta | ...do | T. | | | | | | | | | | | | | | | | | | | | | | .25 | | | | | T. | | | 0.25 |
| Busby | ...do | | | | | | | | | T. | | | | | | | | T. | | | | | | .49 | | | | T. | | .04 | | 0.53 |
| Busteed | ...do | | | | | | | | | | T. | | | | | | .02 | | | .03 | | | | .01 | | | | | T. | | T. | 0.06 |
| Butte | Jefferson | | | T. | | T. | | | .10 | | | | | | | | | | | T. | | T. | T. | .30 | | | | | .35 | | T. | 0.75 |
| Canyon Ferry | Missouri | | | | | | | | | | | | | | | | | | | T. | | | .04 | | .01 | | | | T. | | | 0.65 |
| Cascade | ...do | | | | | T. | | | | .10 | | | | | | | | | | | | | .01 | | | | | | | .03 | | 0.14 |
| Cataract Creek‖ | Jefferson | | | | | | | | | | | | | | | | | | | T. | | T. | T. | T. | .04 | | | | .04 | | .02 | 0.10 |
| Chessman Reservoir | Missouri | | T. | T. | | T. | | | T. | | | | | | | | | | | | | | | | | | | | | | | |
| Chester | ...do | | | | | | | | | T. | | | | | | | | | | | | | | T. | | | | | | | | T. |
| Chinook | Milk River | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Chouteau | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Clear Creek | Milk River | | | | | | | | | | | | | | | | | | | | T. | | 12 | | | | | | | T. | | 0.30 |
| Clemons‖ | Missouri | .01 | .04 | T. | T. | .08 | | | | .05 | | | | | | | | | | | | | | | | | | | | | | |
| Copper | Musselshell | | | | | | | | | | | | | | | | | | | | | | | .36 | | | .07 | | | .03 | | 0.46 |
| Crow Agency | Big Horn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Culbertson | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. |
| Cut Bank | Marias | | | | | | | | | | | | | | | | | | | | | | | .50 | | | | | | | | 0.50 |
| Decker | Tongue | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | |
| Deep Creek | Missouri | | | | | | | | | | | | | | | | | | | | .01 | | | .01 | | | | | | | | 0.05 |
| Delphine | Musselshell | | | | | | | | | .03 | | | | | | | | | | | | | | | | | | | | | | |
| Denton | Missouri | | | | | | | | | | | | | | | | | | | | | | T. | .20 | | | .10 | .01 | | | | 0.31 |
| Dillon | Jefferson | | | | | | | | | T. | | | | | | | | | | | | | T. | T. | | | | | | T. | | T. |
| Dirty Creek | Musselshell | T. | | | | T. | | | T. | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 2.—*Daily precipitation for March, 1910. District No. 6*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Montana*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dry Creek | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dry Wolf Camp | do | | | | | | | | T. | T. | | | | | | | T. | | | .03 | | T. | | | | | | .05 | | | | 0.08 |
| East Gallatin River | Gallatin | | | | | | | | | .18 | | | | | | | | | | | | | | .03 | .06 | | | | | .25 | | | 0.52 |
| Ekalaka | Little Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | .52 | .18 | .10 | .10 | | | 0.90 |
| Elkhorn | Jefferson | | | .03 | | .08 | | | | T. | | | | | | | | T. | | .02 | | | .02 | | .04 | | T. | | .05 | T. | | | 0.22 |
| Evans | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fallon | Yellowstone | | | | | | | | | | | | | | | | | | | | | | | .13 | | | .88 | | | .09 | | | 1.10 |
| Family | Marias | | | | | .02 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.02 |
| Fish Creek | Jefferson | | | | | | | | | | | | | | | | | | | | | | | .25 | .15 | T. | T. | T. | 1.00 | | | T. | 1.40 |
| Fishtail Creek | Yellowstone | | | | | | | | | | | | | | | | | | | | | | | | | | | | .03 | | | | 0.03 |
| Flathead Creek | do | | | | | | | | | .23 | | | | | | | | | | | | | | .15 | .15 | | | | .25 | | | .09 | 0.87 |
| Forsyth | do | T. | | | | | | | | | | | | | | | | | | | | | | .22 | | | T. | | | | | T. | 0.22 |
| Fort Benton | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Fort Shaw | Sun River | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Foster | Big Horn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Garneil | Musselshell | | | | | | | | T. | .20 | | | | | | | | | | T. | | | | | | | | * | .06 | | | | 0.26 |
| Glendive | Yellowstone | | | | | | | | | | | | | | | | | | | | | | | .04 | | | .81 | | | T. | | | 0.85 |
| Goldbutte | Marias | | | | | | | | | | | | | | | | | | | | | | .09 | | | | | | | | | | 0.09 |
| Graham | Powder | | | | | | | | | T. | | | | | | | | | | | | | | .05 | | | .10 | | | T. | | .07 | 0.22 |
| Grayling | Madison | | | | | | | | | T. | | | | | | | | | | | T. | | | T. | T. | | | | .13 | | | | 0.13 |
| Great Falls | Missouri | | | T. | | .08 | | | | .12 | | | | | | | | | | | | | .01 | | | | | | T. | .06 | | | 0.27 |
| Half Moon Pass | Musselshell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Half Way House | Missouri | | | | | | | | .11 | .19 | | | | | | | | | | .07 | | | | .03 | .05 | | | | .08 | .04 | | | 0.57 |
| Harlowton | Musselshell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Hassel | Missouri | | | | | | | | T. | | | | | | | | | T. | | | | T. | | | | | | | T. | | T. | T. | T. |
| Havre | Milk River | .10 | | | | | | | .20 | | | | | T. | | | | | | | | | T. | .03 | | | | | | | | | 0.33 |
| Helena | Missouri | .01 | T. | | | T. | | | T. | | | | | | | | | .01 | | .02 | | | T. | T. | T. | | | | T. | | | T. | 0.04 |
| Highwood | do | | | | | T. | | | T. | .02 | | | | | | T. | | | | | | | | | | | | | T. | .01 | | | 0.03 |
| Homepark | Jefferson | | | | | | | | | | | | | | | | | | | | | | | | .38 | | | .04 | | | | | 0.42 |
| Huntley | Yellowstone | | | | | | | | | | | | | | | | | | | | | | | .55 | | | | | | | | | 0.55 |
| Jones Canyon | Gallatin | | | | | | | | | | | | | | | | | | | | | | | | .24 | .36 | | | | | | | 0.60 |
| Jordan | Missouri | | | | | | | | | | | | | | | | | .70 | | | | | | | | | .20 | | | .10 | | | 1.00 |
| Kleinsmith Creek | Jefferson | T. | | T. | | .07 | | | | .02 | | | | | | | | .02 | | | | | T. | T. | .13 | | | | .23 | | | | 0.44 |
| Lewiston | Missouri | | | T. | | | T. | | | | | | | | | | | | | | | | | .03 | | | | | | .22 | | | 0.25 |
| Livingston | Yellowstone | T. | | T. | | | T. | | | .02 | | | | | | | | T. | | | | | T. | T. | T. | | | | .08 | .02 | | | 0.12 |
| Lodge Pole Creek | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lonetree | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Lost Horse Creek | Musselshell | | | T. | | | | | T. | .09 | | | | | | | | | | T. | T. | .02 | T. | T. | .02 | | | | | T. | | | 0.13 |
| Malta | Milk River | | | | | | | | | T. | | | | | | | | | | | | | | .20 | | | | | .12 | .10 | | | 0.42 |
| Meadow Creek | Madison | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Melstone | Musselshell | .02 | | | | | | | | | | | | | | | | | | | | | | .55 | | | .10 | | .17 | | | | 0.84 |
| Mildred | Yellowstone | T. | | | | | | | | | | | | | | | | | | | | | | | .47 | | .98 | | T. | .14 | | | 1.59 |
| Miles City | do | .03 | | | | | | | | .70 | | | | | | | | T. | | | | | | .62 | | | .34 | | | | .06 | | 1.75 |
| Mill Creek | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | .13 | | | .05 | 0.18 |
| Moore | Missouri | | | | | T. | | | | | | | | | | | | | | | | | | .10 | | | T. | | | | | | 0.10 |
| Mudd Creek | Jefferson | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Norris | Madison | | | | | | | | | .12 | | | | | | | | | | | | | .12 | | | .10 | | T. | .01 | | T. | | 0.35 |
| Nye | Yellowstone | | | | | | | | | .04 | | | | | | | | | | | | | | | | | | | .04 | | | | 0.08 |
| Olsen Creek | Jefferson | | | | | .02 | | | .02 | | | | | | | | | | | | .02 | | | .03 | .16 | | | | .09 | .03 | | | 0.37 |
| Pipestone Pass | do | .03 | | | | T. | | | | .03 | | | | | | | | | | T. | T. | .05 | | .07 | | | | | .25 | | | | 0.43 |
| Poplar | Missouri | | | | | | | | | | | | | | | | | | | | | | | .45 | | | 1.50 | T. | | T. | | | 1.95 |
| Raymond | do | T. | T. | T. | T. | T. | | | .03 | | | | | | | | | | | | | | T. | | | | | T. | | | T. | | 0.03 |
| Red Lodge | Yellowstone | | | | | | | | | .16 | | | | | | | | | | | | | | | | | T. | | .04 | | T. | | 0.20 |
| Reese Creek | Gallatin | | | | | | | | | | | | | | | | | | | | | | | | .12 | | | | | .26 | | | 0.38 |
| Renova | Jefferson | | | | | | | | | | | | | | | | | | | | | | .03 | | .02 | | | | .11 | | | | 0.16 |
| Rimini | Missouri | .28 | .32 | T. | | | | | | | | | | | | | | | | .03 | | | .11 | | .08 | | | | .07 | | | .03 | 0.92 |
| Ryegate | Musselshell | | | | | | | | | | | | | | | | | | | | | | | .15 | | | | | T. | | | | 0.15 |
| Sedan | Yellowstone | T. | | T. | | | | | T. | .01 | | | | | | | | T. | T. | | | | | | T. | | | | .08 | | | T. | 0.09 |
| Springbrook | do | | .02 | | | | | | | | | | | | | | | | T. | | | | | .32 | T. | | | .58 | | .20 | | T. | 1.12 |
| Stearns | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Three Forks | Madison | | | | | | | | | | | | | | | | | | | | | | | .25 | | | | .09 | | | | | 0.34 |
| Tokna | Yellowstone | | | | | T. | | | | | | | | | | | | | | | | | | .20 | | | * | .96 | | .05 | | T. | 1.21 |
| Townsend | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trail Creek | Yellowstone | | | | | | | | .15 | | | | | | | | | | | | | | | .02 | .09 | | | | .11 | .19 | | .13 | 0.69 |
| Utica | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Valentine | Musselshell | .02 | | | | | | | | .06 | | | | | | | | | | | | | | .09 | | | | | | | | | 0.17 |
| Virginia City | Jefferson & Madison | | | | | | | | | T. | | | | | | | | | | | | | .04 | | .07 | .12 | | | .05 | .02 | | | 0.30 |
| Wall Rock Mountain | Missouri | | | | | | | | .08 | | | | | | | | | | | | | | | T. | .08 | | | | .09 | | | | 0.25 |
| Warm Springs Creek | Madison | | | | | | | | | .06 | | | | | | | | .02 | .03 | | | | .05 | .02 | .45 | .06 | | | .07 | .01 | | .14 | 0.91 |
| West Rosebud Creek | Yellowstone | | | | | | | | | .15 | | | | | | | | | | | | | | | | | | | | | | | 0.15 |
| Willow Creek | do | .21 | | | | | | | .05 | | | | | | | | | | | | | | | | .08 | | | | | .17 | | .07 | 0.58 |
| Wolf Creek | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wolf Point | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woodville | Jefferson | | .03 | | | | | | | .09 | | | | | | | | | T. | | | | .01 | | .24 | | | | .21 | | | | 0.58 |
| *North Dakota.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aplin | Knife | | | | | | | | | | | | | | | | | | T. | | | | | | | | .04 | 1.38 | | .63 | | | 2.05 |
| Beach | Little Missouri | | | | | | | | .01 | | | | | | | | | | | | | | | .43 | | | .48 | .23 | | .04 | | | 1.19 |
| Berthold Agency | Missouri | | | | | T. | | | | | | | | | | | | | | | | | | T. | | | T. | 1.03 | * | .41 | | | 1.44 |
| Bismarck | do | T. | T. | | | | | | | | | | | | | | | | T. | | | | | | | | .02 | .02 | | .50 | | | 0.54 |
| Broncho | Knife | | | | | | | | | | | | | | | | | | | | | | T. | | | | | | T. | .43 | .25 | | 0.68 |
| Buford | Missouri | T. | | | | T. | | | | | | | | | | | | | | | | | | .52 | | | .33 | .33 | | T. | | | 1.18 |
| Coal Harbor | do | | | | | | | | | | | | | | | | | | | | | | | | 1.00 | | | | | .80 | | | 1.80 |
| Dickinson | Hart | T. | | | | T. | | | | | | | | | | | | | | | | | | | .01 | | .02 | .54 | | .25 | | | 0.82 |
| Edgely | James | | | | | | | | | | | | | | | | | | | | | | | | | | .07 | | | .27 | .86 | | 1.20 |
| Ellendale | do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | .32 | .84 | | 1.16 |
| Epping | Missouri | | | | | | | | | | | | | | | | | | | | | | | .33 | .13 | | .16 | .70 | | .08 | | | 1.40 |
| Fullerton | James | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .34 | 1.48 | | 1.82 |
| Haley | Grand | | | | | | | | | T. | | | | | | | | | | | | | | | | | T. | .46 | | .20 | .26 | | 0.92 |
| Hettinger | Cannon Ball | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | | .02 | | | 0.07 |
| Howard | Missouri | T. | | | | T. | | | | | | | | | | | | | T. | | | | | * | .40 | | * | .90 | | .20 | | | 1.50 |
| Jamestown | James | | | | | | | | | | | | | | | | | | | | | | | | | | .15 | | | .28 | 1.10 | | 1.53 |
| Lamoine | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | T. | | | T. |
| LaMoure | James | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mc Henry | do | | | | | | | | | | T. | | | | | | | | T. | | | | | | | | T. | .15 | .10 | .06 | | | 0.31 |
| Manfred | Sheyenne | | | | | | | | | | | | | | | | | | | | | | | | T. | | .02 | .08 | | .20 | .06 | | 0.36 |
| Marmarth | Little Missouri | | | | | | | | | T. | | | | | | | | | | | | | | T. | | | .27 | .22 | | .01 | | | 0.40 |
| Marstonmoor | James | | T. | | | | T. | | T. | | | | | | | | | | | | | | | | | | T. | .06 | T. | T. | .22 | | 0.28 |
| Medora | Little Missouri | | | | | | | T. | | | | | | | | | | | | | | | | T. | | .10 | T. | * | .44 | .10 | | | 0.64 |
| Melville | James | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. | T. | | | T. |
| Mott | Cannon Ball | .02 | T. | | | | | | | | | | | | | | | | | | | | | | | | .21 | .09 | | .50 | | | 0.62 |
| Napoleon | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | .10 | .57 | | | 0.67 |
| New England | Cannon Ball | | | | | | | | | | | | | | | | | | | | | | | | | | | .50 | | | .25 | | 0.75 |
| New Salem | Heart | T. | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | .35 | | | 0.40 |
| Orange | Cannon Ball | | | | | | | | | | | | | | | | | | | | | | | | | | | .22 | | | .10 | | 0.32 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 6*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *North Dakota*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Palermo | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schafer | Little Missouri | T. | | | | | .02 | | | | | | | | | | | | | | | | | T. | .30 | | T. | .75 | | .21 | | | 1.28 |
| Steele | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swartwood | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Washburn | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .72 | .04 | | 0.76 |
| Williston | ...do | | | | | | | | | | | | | | | | | | | | | | | .20 | .02 | | .92 | .15 | .02 | | | | 1.31 |
| Wishek | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .01 | | .10 | .30 | | 0.41 |
| *South Dakota.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aberdeen ‖ | James | | | | | | | | T. | | | | | | | | | T. | | | | | | | | | | | | .35 | .35 | .10 | 0.80 |
| Academy | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .46 | | 0.46 |
| Alexandria | James | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | .38 | | 0.38 |
| Ardmore ‖ | Cheyenne | | | | | | | | | .20 | | | | | | | | | | | | | | | | | | | | .60 | | | 0.80 |
| Armour | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Belle Fourche | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bowdle | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brookings | Big Sioux | | .20 | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .15 | | 0.35 |
| Burke | Missouri | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | .50 | | 0.50 |
| Canton | Big Sioux | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .05 | | 0.05 |
| Cascade Springs | Cheyenne | | | | | | | | | .24 | | | | | | | | | | | | | | | | | .24 | .22 | | .30 | | | 1.00 |
| Castlewood | Big Sioux | | | | | | | | | | T. | T. | | | | | | | | | | | | | | | | | | .13 | .39 | | 0.52 |
| Centerville | Missouri | T. | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .28 | T. | | 0.28 |
| Chamberlain | ...do | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | .36 | .14 | | 0.50 |
| Clark | James | | | | T. | | | | | .02 | | | | | | | | | | | | | | | | | | T. | | .25 | .35 | | 0.62 |
| Clear Lake | Big Sioux | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cottonwood | Missouri | | | | | | | | | .25 | | | | | | | | | | | | | | | | | | .10 | | .06 | .35 | | 0.76 |
| Daviston | Grand | T. | | | | | | | | | | | | | | | | | | | | | | | | | 1.55 | | | .14 | | | 1.69 |
| Deadwood | Cheyenne | | | | | | | | | .30 | | | | | | | | | | | | | | | | | .50 | .60 | | 2.50 | | | 3.90 |
| Deerfield | ...do | | | | | | | | | .15 | | | | | | | | | | | | | | | | | .40 | .30 | | .24 | .07 | | 1.16 |
| De Smet | James | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | .70 | | | 0.70 |
| Dowling | Cheyenne | | | | | | | | | .20 | | | | | | | | | | | | | | | | | T. | .10 | | .50 | .30 | | 1.10 |
| Dumont | ...do | | | | | | | | .02 | .39 | | | | | | | | | | | | | | | | | .38 | .17 | | 1.28 | .80 | | 3.04 |
| Elk Mountain | ...do | | | | | | | | .30 | | | | | | | | | | | | | | | | | | .33 | | | .10 | | | 0.73 |
| Elk Point | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ellingson | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Englewood | Cheyenne | | | | | | | | | .08 | | | | | | | | | | | | | | | | | .54 | .40 | | 1.45 | .35 | | 2.82 |
| Eureka | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | .30 | .93 | | 1.23 |
| Faulkton | James | | | | | | | | | | T. | | | | | | | | | | | | | | | | T. | | | .60 | .90 | T. | 1.50 |
| Flandreau | Big Sioux | | | .04 | | | | | | | | | | | | | | | | | | | | | | | | | | .50 | .01 | | 0.55 |
| Forestburg | James | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .04 | .21 | | 0.25 |
| Fort Meade | Cheyenne | | | | | | | | | .15 | | | | | | | | | | | | | | | | | .20 | | | .70 | .50 | | 1.55 |
| Frederick | James | | | | | | | | | T. | | | | | | | | | | | | | | | | | .03 | | | .58 | .73 | | 1.34 |
| Gannvalley | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. | | T. |
| Greenmont | Cheyenne | | | | | | | | | .25 | | | | | | | | | | | | | | | | .30 | .20 | | 3.11 | | | | 3.86 |
| Greenwood | Missouri | | | | | | | | | T. | | | | | | | | | | | | | | | | | T. | | | | .32 | | 0.32 |
| Hardy Ranger Station | Cheyenne | | | | | | | | T. | .08 | | | | | | | | | | | | | | | | | .15 | .50 | | 1.50 | .10 | | 2.33 |
| Harveys Ranch | ...do | .14 | | | | | | | T. | .22 | | | | | | | | | | | | | | | | | .31 | .16 | | 2.90 | | | 3.73 |
| Hermosa | ...do | | | | | | | | .50 | | | | | | | | | | | | | | | | | | .40 | | | .15 | | | 1.05 |
| Highmore | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .54 | .04 | | 0.58 |
| Hill City | Cheyenne | | | | | | | | | .31 | | | | | | | | | | | | | | | | | .25 | | | .22 | .17 | | 0.95 |
| Hopewell | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.00 | | | 1.00 |
| Howard | James | T. | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | .40 | .20 | | 0.60 |
| Howell | ...do | | | | | | | | | T. | | | | | | | | | | | | | | | | | T. | | | .19 | .19 | | 0.38 |
| Huron | ...do | T. | | | | | | | | T. | | | | | | | | | | | | | | | | | T. | | T. | .02 | .08 | T. | 0.10 |
| Ipswich | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. | .90 | .15 | | 1.05 |
| Kadoka | White | | | | | | | | | .14 | | | | | | | | | | | | | | | | | .36 | .13 | | .47 | .30 | | 1.39 |
| Kennebec | Missouri | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | .20 | .10 | | 0.40 |
| Kidder | James | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .45 | .35 | | 0.80 |
| Kimball | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .09 | | 0.09 |
| La Delle | James | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | .18 | .30 | 0.48 |
| Lead | Cheyenne | | | | | | | | * | .25 | | | | | | | | | | | | | | | | | .83 | | | 1.10 | | | 2.18 |
| Lemmon | Grand | T. | | | | | | | | | | | | | | | | | | | | | | | | | T. | .20 | | | | | 0.20 |
| Leslie | Cheyenne | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marion | Missouri | T. | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | .11 | | 0.11 |
| Marston | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.20 | | | 1.20 |
| Mellette | James | T. | | | | | | | | | T. | | | | | | | | | | | | | | | | T. | | | .18 | .30 | | 0.48 |
| Menno | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | .30 | .10 | | 0.40 |
| Milbank ‖ | Minnesota | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .26 | .12 | | 0.32 |
| Mitchell ‖ | James | | | | | | | | | .04 | | | | | | | | | | | | | | | | | | | | 1.00 | 1.00 | | 2.04 |
| Murdo | White | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | 1.00 | | | 1.00 |
| Oelrichs | Cheyenne | | | | | | | | | | | | | | | | | | | | | | | | | | | .58 | | .20 | | | 0.78 |
| Orman | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .55 | .45 | | 1.00 |
| Ottumwa | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | .60 | .90 | .03 | | 1.53 |
| Pierre | ...do | T. | | | | | | | | T. | | | | | | | | | | | | | | | | | T. | | | | .20 | | 0.20 |
| Plankinton § | James | | | | | | | | | | | | | | | | | | | | | | | | | | .72 | | | .53 | | | 1.73 |
| Rapid City | Cheyenne | | | | | | | | .15 | .33 | | | | | | | | | | | | | | | | | | | | .10 | .15 | | 0.25 |
| Redfield ‖ | James | | | | | | | | | | | | | | | | | | | | | | | | | | .70 | .40 | | .20 | | | 1.60 |
| Rochford ‖ | Cheyenne | .05 | | | | | | | .25 | | | | | | | | | | | | | | | | | | T. | T. | | 1.00 | .70 | | 2.40 |
| Rosebud | White | | | | | | | | | .70 | | | | | | | | T. | | | | | | | | | T. | | * | .25 | .04 | | 0.29 |
| Roslyn | Big Sioux | | | | | | | | | | | T. | | | | | | | | | | | | | | | .50 | | | 2.03 | | | 2.68 |
| Savoy | Cheyenne | | | | | | | | T. | .15 | | | | | | | | | | | | | | | | | T. | | .50 | .98 | | | 1.48 |
| Selby | Missouri | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .25 | .10 | | 0.35 |
| Sioux Falls | Big Sioux | | | | | | | | | | | | | | | | | | | | | | | | | | | .40 | | | .50 | | 1.40 |
| Spearfish | Cheyenne | | | | | | | | .50 | | | | | | | | | | | | | | | | | | T. | T. | T. | .05 | T. | | 0.05 |
| Stephan | Missouri | | | | | | | | | T. | T. | | | | | | | | | | | | | | | | .11 | .86 | | .16 | | T. | 1.13 |
| Tama | Cheyenne | | | | | | | | T. | T. | | | | | | | | | | | | | | | | | T. | .63 | | .32 | | | 0.95 |
| Vale | ...do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .03 | .05 | | 0.08 |
| Vermilion | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | .14 | | | .59 | | | 0.73 |
| Waters Ranch | Cheyenne | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | T. | T. | | T. |
| Watertown | Big Sioux | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .03 | | .06 | 0.15 |
| Wentworth | ...do | | | .06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wessington Springs | James | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | | 0.05 |
| White Lake | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .29 | .10 | | 0.39 |
| Yankton | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Minnesota.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pipestone | Big Sioux | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .04 | | 0.04 |
| *Colorado.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Akron | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .18 | .08 | | 0.26 |
| Alma | South Platte | | | | | | | | | | | | | | | .15 | | | | | | | | | | | .21 | | | | | | 0.36 |
| Arriba | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.00 | | | 1.00 |
| Auldhurst | South Platte | | | | | | | | | .13 | | | | | | | | | | | | | | | | | T. | | | .41 | | | 0.54 |
| Barker | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boreas | ...do | | | | | | | | .02 | | | | | | | T. | | | | | | | | | | | .04 | | | .22 | | | 0.28 |
| Boulder | ...do | | | | | | | T. | | | | | | | | | | | | | | | | | | | T. | | * | .05 | | | 0.05 |
| Burlington | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | T. | | | 0.05 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 6*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Colorado—Cont'd.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cassells | South Platte | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | T. | | | 0.10 |
| Cast'e Rock | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.67 | | | 1.67 |
| Cheesman | do | | | | | | | | | T. | | | | | | | | | T. | | | | | | | | | | | .40 | | | 0.40 |
| Cheyenne Wells | Smoky Hill | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | .09 | | | | 0.09 |
| Como | South Platte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cope | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | .96 | | | | 0.96 |
| Corona | South Platte | .72 | | | | | | | | .16 | .26 | | | | | | | | | | | | | | | | .02 | .26 | | .84 | .88 | | 3.14 |
| Denver | do | | | | | | | | | | | | | | | | T. | | | | | | | | | | T. | | .24 | .72 | | | 0.96 |
| Edgewater | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .86 | | | 0.86 |
| Estes P'k. Fish H'y | do | | | | | | | | | .16 | | | | | | | | | | | T. | | | | | | T. | | | T. | | | 0.16 |
| Fort Collins | do | | | | | | | | | | | | | | | | | | | | | | | | | | .65 | | .01 | T. | | | 0.06 |
| Fort Morgan | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frances | do | | | | | | | | | .24 | | | | | | | | | | | | | | | | | T. | .03 | | .10 | T. | | 0.37 |
| Fry's Ranch | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .74 | | | 0.74 |
| Georgetown | do | | | | | | | | T. | .10 | | | | | | T. | | | | | | | | | | .05 | .07 | | .07 | T. | | | 0.29 |
| Greeley | do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .40 | | | 0.40 |
| Hartsel | do | T. | | | | | | | | .01 | T. | | | | | .01 | T. | | | | | | | | | .01 | T. | | | .01 | | | 0.04 |
| Hawthorne | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .25 | | | 0.25 |
| Holyoke (near) | do | .34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.34 |
| Idaho Springs | do | | | | | | | | | .30 | | | | | | | | | | | | | | | | | .04 | | | .10 | | | 0.44 |
| Kossler | do | | | | | | | | | .07 | | | | | | | | | | | | | | | | | | | | .15 | | | 0.22 |
| La Porte | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .01 | | | 0.01 |
| Le Roy (near) | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Longmont | do | | | | | | | | | T. | | | | | | | | | T. | | | | | | | | T. | | | .02 | | | 0.02 |
| Long's Peak (near) | do | | | | | | | | | .42 | | | | | | | | | | | | | | | | | | .07 | | .15 | | | 0.64 |
| Moraine | do | | | | | | | | | .25 | | | | | | | | | | | | | | | | | T. | | | | | | 0.25 |
| Platte Canyon | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | * | .65 | | | 0.65 |
| St. Cloud | do | | | | | | | | | T. | | | | | | T. | | | | T. | | | | | | | T. | | | .68 | | | 0.68 |
| Sedgwick | do | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | .02 | .55 | .15 | | 0.92 |
| Sill Mine | do | .21 | | | | | | | * | .06 | T. | | | | | T. | | | | | | | T. | T. | | * | .35 | .05 | T. | .45 | T. | | 1.12 |
| Spicer (near) | North Platte | | | | | | | .01 | | | | | | | | | | | | | | | | | | | .15 | | | | | | 0.16 |
| Sterling | South Platte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Waterdale | do | | | | | | | | | .04 | | | | | | | | | | | | | | | | | | | | .07 | | | 0.11 |
| Westlake | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wray | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | .03 | .28 | .03 | | 0.34 |
| Yuma | do | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | .45 | | | 0.45 |
| *Nebraska.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ainsworth | Niobrara | | | | | | | | | .39 | | | | | | | | | | | | | | | | | .04 | | | T. | .07 | | 0.50 |
| Albion | Loup | | | | | | | | | .39 | | | | | | | | | | | | | | | | | | | | | | | 0.39 |
| Alliance | North Platte | | | | | | | | | T. | | | | | | | | | | | | | | | | | T. | | * | 1.10 | | | 1.10 |
| Alma | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Anoka ‖ | Niobrara | | | | | | | | | .09 | | | | | | | | | | | | | | | | | | | | | T. | | 0.09 |
| Ashland | Platte | | | | | | | | | .09 | | | | | | | | | | | | | | | | T. | | | | | T. | | 0.09 |
| Atkinson ‖ | Elkhorn | | | | | | | | | .04 | | | | | | | | | | | | | | | | | | | | | | | 0.04 |
| Auburn | Little Nemaha | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Beatrice | Blue | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Beaver City | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Bellevue | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Blair | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Bloomfield | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bridgeport | North Platte | | | T. | | | | | | T. | | | | | | | | | | | | | | | | | T. | T. | T. | .80 | | | 0.80 |
| Brokenbow ‖ | Loup | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Burge | Niobrara | | | | | | | | | .25 | | | | | | | | | | | | | | | | | T. | | | | .16 | | 0.41 |
| Callaway | Loup | | | | | | | | | .31 | | | | | | | | | | | | | | | | | | | | | | | 0.31 |
| Cambridge | Republican | | | | | | | | | T. | | | | | | | | T. | T. | | | | | | | | T. | | | T. | | | T. |
| Canton (near) | North Platte | | | | | | | | T. | | | | | | | | | | | | | | | | | | .06 | | | .15 | | | 0.21 |
| Columbus ‖ | Loup | | | | | | | | | | .16 | | | | | | | | | | | | | | | | | | | | | | 0.16 |
| Creighton | Missouri | | | | | | | | | .05 | | | | | | | | | | | | | | | | | | | | | .09 | | 0.14 |
| Crete | Blue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Culberson ‖ | Republican | | | | | | | | | | | | | | | | | | T. | | | T. | | | | | | | | | .03 | | 0.03 |
| Curtis | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| David City | Blue | | | | | | | | | .25 | | | | | | | | | | | | | | | | | | | | | T. | | 0.25 |
| Dawson | Great Nemaha | | | | | | | | T. | | | | T. | | | | | | | | | | | | | | | | T. | T. | | | T. |
| Elsie ‖ | Republican | | | | | | T. | | | | | | | | | T. | | | | T. | | | | | | | | .21 | | | | 0.21 |
| Enderslake | Loup | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ewing ‖ | Elkhorn | | | | | | | | | .15 | | | | | | | | | | | | | | | | | T. | | | | T. | | 0.15 |
| Fairbury ‖ | Blue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Fairmount ‖ | do | | | | | | | | | .21 | | | | | | | | | | | | | | | | | | | | | | | 0.21 |
| Fort Robinson ‖ | Niobrara | | | | | | | | | .35 | | | | | | | | | | | | | | | | | | .45 | | .27 | | | 1.07 |
| Franklin | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Fremont | Platte | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Fullerton | Loup | | | | | | | | | .35 | | | | | | | | | | | | | | | | | .25 | | | | | | 0.60 |
| Geneva | Blue | | | | | | | | | .06 | T. | | | | | | | | | | | | | | | | | | | | T. | | 0.06 |
| Genoa | Loup | | | | | | | | | .27 | .03 | | | | | | | | | | | | | | | | T. | | | T. | | | 0.30 |
| Gordon ‖ | Niobrara | | | | | | | | | .80 | | | | | | | | | | | | | | | | | | | | .50 | | | 1.30 |
| Gosper | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Gothenburg | Platte | | | | | | | | | .23 | | | | | | | | | | | | | | | | | | | | | | | 0.23 |
| Grand Island ‖ | do | | | | | | | | | | .03 | | | | | | | | | | | | | | | | | | | | | | 0.03 |
| Grant | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .50 | .08 | | 0.58 |
| Greeley | Loup | | | | | | | | | .90 | | | | | | | | | | | | | | | | | | | | | T. | | 0.90 |
| Halsey | do | | | | | | | | | .15 | | | | | | | | | | | | | | | | | | | T. | .12 | | | 0.27 |
| Hartington | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | T. | | 0.05 |
| Harvard ‖ | Blue | | | | | | | | | .02 | | | | | | | | | | | | | | | | | | | | T. | | | 0.02 |
| Hastings ‖ | do | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | | | 0.10 |
| Hayes Center | Republican | | | | | | | | | .05 | | | | | | | | .02 | | | | | | | | | | | | .02 | | | 0.09 |
| Hay Springs | Niobrara | | | | | | | | | .30 | | | | | | | | | | | | | | | | | .50 | | .30 | .70 | | | 1.80 |
| Hebron | Blue | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | T. |
| Hemingford ‖ | Niobrara | | | | | | | | | .01 | | | | | | | | | | | | | | | | | | .06 | | .23 | .10 | | 0.40 |
| Hillside | North Platte | | | | | | | | | .15 | | | | | | | | | | | | | | | | | | | .04 | .51 | T. | | 0.70 |
| Holdredge ‖ | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Hooper | Elkhorn | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | T. |
| Imperial | Republican | | | | | | | | | T. | | | | | | | | T. | | | | | | | | | | | .26 | .12 | | | 0.38 |
| Kearney | Platte | | | | | | | | | .05 | | | | | | | | | | | | | | | | | | | | | | | 0.05 |
| Kimball ‖ | South Platte | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | 1.00 | | | | 1.00 |
| Kirkwood | Niobrara | | | | | | | | | .40 | | | | | | | | | | | | | | | | | | | | | .10 | | 0.50 |
| Kowanda | North Platte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .62 | .03 | | 0.65 |
| Lexington | Platte | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | T. | | | T. |
| Lincoln | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | T. |
| Loup | Loup | | | | | | | | | .90 | | | | | | | | | | | | | | | | | | | | | | | 0.90 |
| Loyal | do | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | | | | 0.30 |
| Mc Cook | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Madison | Elkhorn | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Marquette | Platte | | | | | | | | | .25 | | | | | | | | | | | | | | | | | | | | | | | 0.25 |
| Mason City ‖ | Loup | | | | | | | | | .45 | | | | | | | | | | | | | | | | | | | | | | | 0.45 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 6*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Nebraska*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minden | Blue | | | | | | | | | .04 | | | | | | | | | | | | | | | | | | | | | 0.04 |
| Mitchell | North Platte | | | | | | | | T. | | | | | | | | | | | | | | | | | | .02 | | | .50 | | | 0.52 |
| Nebraska City | Missouri | | | | | | | | | .05 | | | | | | | | | | | | | | | | | | | | T. | | | 0.05 |
| Norfolk | Elkhorn | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| North Loup | Loup | | | | | | | | | .60 | | | | | | | | | | | | | | | | | | | | | | | 0.60 |
| North Platte | Platte | | | | | | | | | .18 | | | | | | | | T. | | | | | | | | | T. | | | T. | .01 | | 0.19 |
| Oakdale | Elkhorn | | | | | | | | | .15 | | | | | | | | | | | | | | | | | T. | | T. | .02 | | | 0.17 |
| Omaha | Missouri | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | T. | | T. |
| Ord | Loup | | | | | | | | | | .31 | | | | | | | | | | | | | | | | | | | | | | 0.31 |
| Palisade | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Pawnee City | Great Nemaha | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Plymouth | Blue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Purdum | Loup | | | | | | | | | .60 | | | | | | | | | | | | | | | | | | | | .01 | .04 | | 0.65 |
| Ravenna | do | | | | | | | | | .19 | | | | | | | | | | | | | | | | | | | | | | | 0.19 |
| Redcloud | Republican | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | T. |
| Saint Libory | Loup | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | | | | 0.30 |
| Saint Paul | do | | | | | | | | | .19 | | | | | | | | | | | | | | | | | | | | | | | 0.19 |
| Santee | Missouri | .01 | | | | | | | | T. | | | | | | | | | | | | | | | | | T. | | | T. | .27 | | 0.28 |
| Sargent | Loup | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schuyler | Platte | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Scottsbluff | North Platte | | | | | | | | | | | | | | | | | | | | | | | | | | 1.1 | T. | | .19 | T. | | 0.33 |
| Seward | Blue | | | | | | | | | .05 | | | | | | | | | | | | | | | | | | | | | | | 0.05 |
| Sheridan | Loup | | | | | | | | .07 | | | | | | | | | | | | | | | | | | | | T. | T. | | | 0.07 |
| Sidney | South Platte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .50 | | | 0.50 |
| Springview | Niobrara | | | | | | | | | .60 | | | | | | | | | | | | | | | | | T. | | | T. | .05 | | 0.65 |
| Stanton | Elkhorn | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Stratton | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | | 0.05 |
| Superior | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Tecumseh | Great Nemaha | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | T. |
| Tekamah | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Turlington | Little Nemaha | | | | | | | | | .16 | | | | | | | | | | | | | | | | | | | | T. | | | 0.16 |
| Valentine | Niobrara | | | | | | | | | .50 | | | | | | | | | | | | | | | | | .02 | | .06 | .24 | .04 | | 0.86 |
| Wahoo | Platte | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | | | | 0.30 |
| Wakefield | Elkhorn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | | | 0.02 |
| Walthill | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Watertown | Platte | | | | | | | | | | | | | .20 | | | | | | | | | | | | | | | | | | | 0.20 |
| Wauneta | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Weepingwater | Missouri | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | T. | | | 0.10 |
| Westpoint | Elkhorn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Wisner | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| York | Blue | | | | | | | | | .13 | | | | | | | | | | | | | | | | | | | | T. | | | 0.13 |
| *Iowa.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Afton | Grand | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | T. | | | T. |
| Allerton | Chariton | | | | | | | | | | | | | | | | | | | | | | | | | | .13 | | | .03 | | | 0.16 |
| Alton | Floyd | .02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | 0.02 |
| Atlantic | Nishnabotna | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | | T. |
| Audubon | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Bedford | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | .01 | | | | .04 | | | 0.05 |
| Centerville | Chariton | | | | | | | | | | | | | | | | | | | | | | | | | | .15 | | | T. | | | 0.15 |
| Chariton | do | T. | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | | T. |
| Clarinda | Nodaway | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Corning | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | T. |
| Corydon | Chariton | | | | | | | | | | | | | | | | | | | | | | | | | | .33 | | .01 | | | | 0.34 |
| Creston | Missouri | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | .04 | | | 0.04 |
| Cumberland | Nodaway | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | T. |
| Denison | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | | T. |
| Elliott | Nishnabotna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | T. |
| Greenfield | Nodaway | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Hancock | Nishnabotna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Harlan | do | | | | | | | | | | | | | | | | | | T. | | | | | | | | T. | | | T. | T. | | T. |
| Hopeville | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | | T. |
| Inwood | Big Sioux | | | .01 | | | | | | | | | | | | | | | | | | | | | | | | | | .03 | .02 | | 0.06 |
| Lamoni | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | | | .01 | | | 0.03 |
| Larrabee | Little Sioux | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | | | 0.02 |
| Le Mars | Floyd | .02 | | | | | | | | | | | | | | | | | | | | | T. | | | | | | | .04 | T. | | 0.06 |
| Lenox | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .05 | | | 0.05 |
| Leon | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | | T. |
| Little Sioux | Little Sioux | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Logan | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | T. |
| Massena | Nodaway | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | T. | T. |
| Mount Ayr | Grand | | | | | | | | | | | | | | | | | | | T. | | | | | | | .05 | | | T. | T. | | 0.05 |
| Odebolt | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Onawa | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Pacific Junction | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | T. | | T. |
| Rock Rapids | Big Sioux | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.60 |
| Sheldon | Floyd | | | | | | | | | | | | | | | | | | | | | | T. | | | | | | | .02 | .02 | | 0.04 |
| Sibley | Big Sioux | | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | .04 | T. | 0.04 |
| Sioux Center | Floyd | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | T. | | 0.02 |
| Sioux City | Missouri | | | T. | | | | | | | | | | | | | | T. | | | | | | | | | T. | | | .03 | T. | | 0.03 |
| Thurman | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | T. | | T. |
| Washta | Little Sioux | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Woodburn | Chariton | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | | T. |
| *Kansas.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abilene | Smoky Hill | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | T. |
| Agricultural College | Kansas | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | .01 | | | 0.01 |
| Alton | Solomon | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | T. |
| Atchison | Missouri | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Baker | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | T. |
| Beloit | Solomon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Blakeman | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .04 | | | 0.04 |
| Blue Rapids | Blue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Centralia | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Chapman | Smoky Hill | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Clay Center | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Colby | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | .13 | | | | 0.13 |
| Concordia | do | | | | | | | | | | T. | | | | | | | T. | T. | | | | | | | | | | | T. | | | T. |
| Densmore | Solomon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Dresden | Republican | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | T. | | | T. |
| Ellsworth | Smoky Hill | | | | | | | | | | | | | | | | | T. | .08 | | | | | | | | | | | | | | 0.08 |
| Enterprise | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Eskridge | Kansas | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Farnsworth | Smoky Hill | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Ft. Scott | Marmaton | T. | | | | | | | | .20 | T. | | | | | | | | | | | | | | | | | | | .37 | | | 0.57 |
| Frankfort | Blue | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |

TABLE 2.—*Daily precipitation for March, 1910. District No. 6*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Kansas*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Garnett | Marias de Cygnes | .08 | | | | | | | | .20 | | | | | | | | | | | | | | | | | | | | .07 | | | 0.35 |
| Goodland | Smoky Hill | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Gove | Blue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Hanover | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | T. |
| Harrison | Republican | | | | | | | | | | | | | | | | | .03 | | | | | | | | | | | | | | | 0.03 |
| Hays | Smoky Hill | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Hill City | Solomon | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Horton | Kansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Hoxie | Solomon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jewel | Republican | | | | | | | | | .03 | | | | | | | | | | | | | | | | | | | | .02 | | | 0.05 |
| Lawrence | Kansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Lebanon | Solomon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Lindsborg | Smoky Hill | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | T. |
| Mankato | Republican | | | | | | | | | T. | | | | | | | | | T. | | | | | | | | | | | | | | T. |
| Minneapolis | Solomon | | | | | | | | | .10 | | | | | | | | T. | | | | | | | | | | | | T. | | | 0.15 |
| Moran | Marmaton | .05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Natoma | Saline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Norton | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Oberlin | do | | | | | | | | T. | | | | | | | | | | | T. | | | | | | | | | | | | | T. |
| Oketo | Blue | | | | | | | | | .03 | T. | | | | | | | | | | | | | | | | | | | .11 | | | 0.14 |
| Olathe | Kansas | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | T. | | | | T. |
| Osage City | Marias de Cygnes | | | | | | | | | .11 | | | | | | | | | | | | | | | | | | | | | | | 0.14 |
| Ottawa | do | .03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Phillipsburg | Solomon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Plainville | Saline | | | | | | | | | T. | .16 | | | | | | | | | | | | | | | | | | | .13 | | | 0.44 |
| Pleasonton | Marias de Cygnes | .08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Republic | Republican | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | T. |
| Russell | Smoky Hill | | | | | | | | | T. | | | | | | | | T. | | | | | | | | | | | | | | | T. |
| Saint Francis | Republican | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Salina | Smoky Hill | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Scott | White Woman | | | | | | | | | .05 | | | | | | | | | | | | | | | | | | | | .01 | | | 0.06 |
| Smith Center | Solomon | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Topeka | Kansas | | | | | | | | | .07 | | | | | | | | | | | | | | | | | | | | .04 | | | 0.11 |
| Valley Falls | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Vinland | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Wakeeney | Smoky Hill | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Wallace | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wamego | Kansas | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | .11 | | | 0.41 |
| *Missouri.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amoret | Osage | | | | | | | | .03 | | .30 | | | | | | | | | | | | | | | | | | | .45 | .05 | | 0.53 |
| Appleton City | do | T. | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.30 |
| Arlington | Gasconade | | | | | | | | | .08 | | | | | | | | | | | | | | | | | | | | .42 | | | 0.50 |
| Arthur | Osage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .05 | | 0.05 |
| Avalon | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .50 | | 0.50 |
| Bagnall | Osage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Bethany | Grand | | | | | | | | | .52 | .11 | | | | | | | | | | | | | | | | | | | .08 | 1.12 | | 1.86 |
| Bolivar | Osage | .03 | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | | | 0.64 |
| Boonville | Missouri | | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | .54 | | 0.64 |
| Brunswick | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .47 | | 0.47 |
| Clinton | Osage | .18 | | | | | | | | .09 | .05 | | | | | | | | | | | | | | | | | | | .38 | .22 | | 0.89 |
| Columbia | Missouri | .02 | | | | | | | | .07 | | | | | | | | | | | .13 | | | | | | | | | .30 | .03 | | 0.64 |
| Conception | do | | | | | | | | | | | | | | | | | | | | | | | | | | .04 | | | T. | | | 0.04 |
| Darksville | Chariton | | | | | | | | | | | | | | | | | | | | .20 | | | | | | | | | .47 | | | 0.67 |
| El Dorado Springs | Osage | | | | | | | | | .30 | T. | | | | | | | | | | | | | | | | | | | | .85 | | 1.15 |
| Fairport | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .62 | | | 0.02 |
| Fayette | Missouri | | | | | | | | | | .03 | | | | | | | | | | T. | | | | | | | | | .53 | | | 0.56 |
| Fulton | do | | | | | | | | | | .02 | | | | | | | | | | .32 | | | | | | | | | | .13 | | 0.47 |
| Gallatin | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glasgow | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .52 | | 0.52 |
| Grant City | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .09 | | | 0.09 |
| Harrisonville | Osage | .25 | | | | | | | | | .12 | | | | | | | | | | | | | | | | | | | T. | T. | | 0.62 |
| Hazelhurst | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .25 | | | 0.25 |
| Hermann | Missouri | | T. | | | | | | | | T. | | | | | | | | | | .30 | | | | | | | | | .05 | | | 0.05 |
| Houston | Gasconade | T. | | | | | | | | .95 | .20 | | | | | | | T. | .16 | | | | | | | | | | | .04 | | | 0.34 |
| Huntsville | Chariton | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .40 | | | 1.71 |
| Jefferson City | Missouri | .03 | .08 | | | | | | | | | | | | | | | | | | | | | | | | | | | .65 | | | 0.65 |
| Kansas City | do | | | | | | | | | .03 | | | | | | | | | | | | | | | | | | | | | .17 | | 0.28 |
| Kidder | Grand | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | .05 | | | 0.08 |
| Lamonte | Missouri | .10 | | | | | | | | .08 | T. | | | | | | | .05 | | | | | | | | | | | | .02 | | | 0.02 |
| Lebanon | Osage | .12 | | | | | | | | .71 | .23 | | | | | | | | | | | | | | | | | | | .25 | .32 | | 0.80 |
| Lexington | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .45 | | | 1.51 |
| Liberty | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | .08 | | 0.08 |
| Lockwood | Osage | | | | | | | | | .48 | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Marshall | Missouri | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .15 | 1.19 | | 1.67 |
| Marshfield | Osage | | | | | | | | | .72 | | | | | | | | | | | | | | | | | | | | | .45 | | 0.60 |
| Maryville | Missouri | | | | | | | | | T. | | | | | | | | | | | .08 | | | | | | | | | | .20 | | 0.92 |
| Mount Vernon | Osage | | | | | | | | | | | | | | | | | | | | | | | | | | .21 | T. | | | | | 0.29 |
| Nevada | do | .10 | T. | | | | | | | .22 | | | | | | | | T. | | | | | | | | | | | | .42 | | | 0.74 |
| New Palestine | Missouri | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oregon | Missouri | | | | | | | | | T. | | | | | | | | | | | | T. | | | | | T. | | | T. | | | T. |
| Osceola | Osage | .10 | | | | | | | | | .15 | | | | | | | | | | | | | | | | | | | | .95 | | 1.20 |
| Pattonsburg | Grand | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | T. | | T. |
| Rolla | Gasconade | .04 | | | | | | | | .05 | .09 | | | | | | | | | | T. | | | | | | | | | | .12 | | 0.30 |
| St. Charles | Missouri | | | | | | | | | | | | | | | | | | | | .09 | | | | | | | | | | .04 | | 0.13 |
| St. Joseph | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| St. Louis | Mississippi | .01 | | | | | | | | | | | | | | | | | | | .03 | | T. | | | | | | | | .10 | | 0.14 |
| Sublett | Chariton | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | .10 | | 0.10 |
| Trenton | Grand | | | | | | | | | | | | | | | | | | | | .60 | | | | | | .03 | | | | T. | | 0.63 |
| Unionville | Chariton | .06 | | | | | | | | | | | | | | | | | | | | | | | | | .04 | | | | T. | | 0.10 |
| Warrensburg | Missouri | | | | | | | | | T. | .10 | | | | | | | | | | | | | | | | | | | .15 | .04 | | 0.29 |
| Warrenton | do | | | | | | | | | | .01 | | | | | | | | | | .18 | | | | | | | | | | .11 | | 0.30 |
| Warsaw | Osage | T. | | | | | | | | .05 | | | | | | | | | | | | | | | | | | | | .06 | .80 | | 0.91 |
| Wheatland | do | | | | | | | | | .50 | | | | | | | | | | | | | | | | | | | | .84 | | | 1.34 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 6, Missouri Valley.*

| Date. | Wyoming. | | | | | | | | | | | | | | | | Montana. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Basin. | | Cheyenne. | | Fort Laramie. | | Lander. | | Newcastle. | | Pathfinder. | | Sheridan. | | Yellowstone Park. | | Billings. | | Dillon. | | Havre. | | Helena. | | Lewiston. | | Malta. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 44 | 28 | 56 | 36 | 70 | 19 | 57 | 22 | 55 | 26 | 50 | 32 | 57 | 27 | 43 | 28 | 57 | 30 | 57 | 27 | 46 | 13 | 52 | 27 | 42 | 21 | 44 | 2 |
| 2... | 48 | 31 | 57 | 43 | 71 | 31 | 58 | 29 | 60 | 30 | 53 | 36 | 63 | 35 | 43 | 35 | 65 | 37 | 58 | 31 | 51 | 40 | 57 | 41 | 53 | 31 | 51 | 33 |
| 3... | 50 | 28 | 57 | 41 | 67 | 41 | 60 | 28 | 61 | 31 | 54 | 36 | 54 | 32 | 47 | 38 | 62 | 31 | 60 | 36 | 58 | 39 | 55 | 36 | 55 | 36 | 49 | 26 |
| 4... | 50 | 29 | 63 | 37 | 70 | 38 | 61 | 28 | 64 | 31 | 57 | 38 | 60 | 32 | 47 | 37 | 67 | 32 | 51 | 29 | 60 | 35 | 57 | 33 | 57 | 33 | 58 | 26 |
| 5... | 54 | 29 | 66 | 33 | 74 | 30 | 57 | 33 | 66 | 34 | 57 | 38 | 64 | 29 | 44 | 26 | 64 | 30 | 40 | 27 | 48 | 28 | 49 | 28 | 51 | 21 | 50 | 26 |
| 6... | 58 | 24 | 50 | 21 | 50 | 23 | 51 | 24 | 53 | 24 | 54 | 22 | 45 | 22 | 46 | 22 | 48 | 22 | 54 | 28 | 40 | 26 | 47 | 20 | 37 | 17 | 39 | 24 |
| 7... | 48 | 25 | 64 | 25 | 65 | 20 | 61 | 25 | 60 | 28 | 57 | 38 | 59 | 24 | 49 | 26 | 62 | 24 | 53 | 24 | 51 | 27 | 52 | 30 | 51 | 30 | 47 | 26 |
| 8... | 56 | 26 | 49 | 26 | 66 | 21 | 51 | 26 | 62 | 31 | 55 | 23 | 48 | 28 | 39 | 25 | 50 | 25 | 50 | 27 | 41 | 26 | 44 | 31 | 50 | 27 | 40 | 27 |
| 9... | 52 | 27 | 38 | 20 | 47 | 21 | 44 | 26 | 40 | 18 | 49 | 32 | 46 | 26 | 42 | 24 | 54 | 28 | 47 | 23 | 53 | 25 | 49 | 32 | 59 | 30 | 48 | 28 |
| 10... | 48 | 24 | 54 | 19 | 60 | 13 | 53 | 20 | 51 | 24 | 49 | 24 | 57 | 23 | 46 | 22 | 54 | 32 | 48 | 26 | 62 | 31 | 56 | 39 | 66 | 26 | 55 | 30 |
| 11... | 53 | 24 | 59 | 25 | 71 | 21 | 61 | 24 | 65 | 28 | 55 | 28 | 68 | 25 | 51 | 20 | 66 | 26 | 50 | 27 | 66 | 31 | 62 | 30 | 67 | 37 | 62 | 26 |
| 12... | 60 | 26 | 63 | 31 | 74 | 27 | 64 | 28 | 66 | 30 | 59 | 36 | 68 | 27 | 53 | 23 | 72 | 33 | 64 | 30 | 67 | 37 | 64 | 35 | 62 | 31 | 64 | 35 |
| 13... | 60 | 26 | 59 | 35 | 69 | 30 | 59 | 25 | 67 | 32 | 60 | 27 | 61 | 29 | 57 | 24 | 64 | 26 | 68 | 29 | 58 | 34 | 60 | 33 | 63 | 33 | 54 | 29 |
| 14... | 60 | 25 | 55 | 24 | 67 | 27 | 60 | 27 | 61 | 30 | 61 | 24 | 65 | 25 | 56 | 21 | 70 | 25 | 74 | 26 | 67 | 28 | 63 | 32 | 74 | 31 | 67 | 26 |
| 15... | 61 | 24 | 58 | 26 | 70 | 22 | 60 | 25 | 66 | 32 | 61 | 24 | 65 | 27 | 54 | 21 | 66 | 25 | 67 | 28 | 62 | 31 | 60 | 38 | 67 | 29 | 60 | 30 |
| 16... | 61 | 28 | 58 | 26 | 66 | 21 | 63 | 26 | 67 | 31 | 59 | 30 | 64 | 26 | 56 | 26 | 67 | 26 | 65 | 28 | 64 | 30 | 63 | 33 | 69 | 27 | 64 | 29 |
| 17... | 64 | 27 | 59 | 32 | 63 | 36 | 65 | 25 | 65 | 34 | 61 | 27 | 67 | 26 | 55 | 26 | 72 | 25 | 60 | 29 | 69 | 28 | 61 | 32 | 63 | 21 | 71 | 25 |
| 18... | 65 | 30 | 64 | 34 | 70 | 24 | 69 | 31 | 68 | 32 | 65 | 30 | 68 | 32 | 57 | 32 | 74 | 32 | 60 | 29 | 65 | 39 | 66 | 36 | 66 | 30 | 64 | 35 |
| 19... | 68 | 31 | 69 | 32 | 73 | 26 | 71 | 31 | 75 | 35 | 67 | 30 | 74 | 31 | 61 | 34 | 78 | 32 | 61 | 30 | 67 | 30 | 63 | 40 | 67 | 33 | 67 | 29 |
| 20... | 75 | 33 | 71 | 35 | 75 | 29 | 71 | 31 | 78 | 36 | 69 | 44 | 78 | 32 | 62 | 36 | 82 | 32 | 57 | 31 | 77 | 40 | 71 | 38 | 77 | 36 | 75 | 34 |
| 21... | 70 | 38 | 72 | 39 | 79 | 44 | 71 | 37 | 80 | 40 | 69 | 39 | 73 | 42 | 60 | 38 | 79 | 40 | 58 | 27 | 71 | 40 | 64 | 47 | 73 | 37 | 77 | 41 |
| 22... | 77 | 41 | 73 | 37 | 72 | 41 | 71 | 36 | 82 | 42 | 71 | 40 | 78 | 40 | 54 | 37 | 82 | 38 | 54 | 31 | 75 | 42 | 65 | 45 | 74 | 40 | 80 | 39 |
| 23... | 78 | 40 | 60 | 40 | 73 | 36 | 55 | 33 | 65 | 36 | 68 | 38 | 59 | 31 | 41 | 30 | 64 | 45 | 43 | 29 | 54 | 41 | 52 | 34 | 57 | 33 | 71 | 42 |
| 24... | 58 | 29 | 63 | 29 | 74 | 37 | 55 | 26 | 65 | 32 | 58 | 34 | 58 | 30 | 35 | 28 | 60 | 26 | 51 | 25 | 51 | 32 | 45 | 30 | 50 | 22 | 55 | 32 |
| 25... | 60 | 26 | 59 | 33 | 70 | 33 | 55 | 25 | 68 | 36 | 63 | 32 | 59 | 24 | 50 | 23 | 61 | 24 | 59 | 27 | 56 | 25 | 54 | 23 | 58 | 19 | 57 | 29 |
| 26... | 60 | 29 | 56 | 35 | 63 | 40 | 47 | 31 | 60 | 35 | 54 | 39 | 52 | 38 | 46 | 29 | 56 | 30 | 58 | 30 | 59 | 25 | 55 | 30 | 52 | 28 | 52 | 31 |
| 27... | 60 | 38 | 57 | 35 | 64 | 40 | 54 | 25 | 55 | 34 | 53 | 31 | 61 | 35 | 45 | 27 | 66 | 32 | 50 | 25 | 56 | 28 | 54 | 27 | 60 | 21 | 58 | 31 |
| 28... | 62 | 36 | 65 | 26 | 69 | 33 | 53 | 35 | 60 | 35 | 53 | 36 | 61 | 33 | 44 | 23 | 54 | 34 | 52 | 22 | 55 | 23 | 49 | 32 | 55 | 23 | 53 | 25 |
| 29... | 60 | 30 | 38 | 20 | 34 | 33 | 40 | 26 | 55 | 28 | 43 | 23 | 40 | 28 | 33 | 20 | 48 | 34 | 62 | 20 | 49 | 28 | 48 | 29 | 44 | 26 | 48 | 33 |
| 30... | 61 | 21 | 44 | 17 | 55 | 21 | 57 | 18 | 54 | 19 | 53 | 18 | 60 | 26 | 48 | 16 | 67 | 18 | 64 | 25 | 64 | 25 | 60 | 36 | 41 | 22 | 64 | 20 |
| 31... | 60 | 31 | 56 | 29 | 68 | 26 | 62 | 27 | 68 | 30 | 61 | 19 | 56 | 29 | 43 | 32 | 58 | 37 | 60 | 20 | 49 | 34 | 56 | 38 | 55 | 32 | 62 | 39 |
| Mns | 59.4 | 28.8 | 58.5 | 30.4 | 66.4 | 29.2 | 58.6 | 27.5 | 63.3 | 31.1 | 58.0 | 31.2 | 60.9 | 29.5 | 48.6 | 27.4 | 64.2 | 30.0 | 56.0 | 27.3 | 58.4 | 31.0 | 56.5 | 33.4 | 58.6 | 28.5 | 58.3 | 29.3 |

| Date. | Montana. | | | | North Dakota. | | | | | | | | | | South Dakota. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Miles City. | | Poplar. | | Berthold Agency. | | Bismarck. | | Dickinson. | | Jamestown. | | Williston. | | Aberdeen.ff | | Chamberlain. | | Huron. | | Kodoka. | | Lemmon. | | Pierre. | | Rapid City. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 43 | 24 | 30 | 0 | 34 | 2 | 35 | 8 | 34 | 8 | 36 | 9 | 32 | 3 | 38 | 15 | 48 | 26 | 34 | 24 | ..... | ..... | 33 | 15 | 37 | 29 | 61 | 28 |
| 2... | 60 | 34 | 49 | 14 | 47 | 11 | 45 | 18 | 46 | 21 | 39 | 14 | 49 | 23 | 45 | 15 | 54 | 20 | 47 | 22 | ..... | ..... | 44 | 24 | 52 | 31 | 61 | 37 |
| 3... | 59 | 36 | 50 | 26 | 53 | 25 | 50 | 34 | 48 | 27 | 43 | 27 | 50 | 35 | 45 | 28 | 57 | 24 | 46 | 30 | 55 | 34 | 47 | 33 | 52 | 35 | 66 | 36 |
| 4... | 62 | 32 | 52 | 26 | 54 | 28 | 52 | 32 | 50 | 30 | 48 | 30 | 52 | 33 | 49 | 31 | 56 | 28 | 43 | 30 | 57 | 33 | 47 | 31 | 53 | 33 | 61 | 36 |
| 5... | 66 | 36 | 50 | 30 | 53 | 28 | 54 | 27 | 45 | 30 | 46 | 24 | 53 | 28 | 52 | 26 | ..... | 27 | 45 | 23 | 70 | 32 | 49 | 28 | 63 | 30 | 70 | 30 |
| 6... | 42 | 30 | 49 | 23 | 48 | 29 | 38 | 25 | 37 | 18 | 41 | 21 | 35 | 19 | 40 | 29 | ..... | 22 | 39 | 30 | 53 | 30 | 36 | 30 | 43 | 33 | 47 | 25 |
| 7... | 52 | 26 | 42 | 11 | 41 | 12 | 36 | 13 | 42 | 10 | 35 | 13 | 42 | 15 | 33 | 22 | 45 | 20 | 36 | 20 | 52 | 26 | 39 | 14 | 45 | 25 | 59 | 24 |
| 8... | 46 | 28 | 43 | 27 | 41 | 20 | 40 | 22 | 37 | 23 | 36 | 18 | 38 | 23 | 43 | 23 | 47 | 26 | 40 | 25 | 48 | 23 | 38 | 22 | 41 | 31 | 47 | 29 |
| 9... | 42 | 30 | 41 | 12 | 41 | 11 | 36 | 16 | 38 | 14 | 32 | 19 | 42 | 14 | 35 | 25 | 44 | 20 | 36 | 27 | 38 | 25 | 35 | 24 | 41 | 32 | 33 | 24 |
| 10... | 58 | 30 | 52 | 28 | 53 | 28 | 54 | 28 | 46 | 23 | 48 | 23 | 50 | 30 | 54 | 25 | 55 | 27 | 50 | 28 | 46 | 20 | 45 | 23 | 57 | 30 | 57 | 22 |
| 11... | 66 | 29 | 53 | 22 | 55 | 21 | 47 | 33 | 50 | 20 | 45 | 28 | 58 | 25 | 50 | 31 | 53 | 30 | 43 | 33 | 53 | 27 | 49 | 24 | 55 | 33 | 63 | 32 |
| 12... | 68 | 35 | 61 | 32 | 66 | 31 | 64 | 33 | 55 | 34 | 65 | 31 | 62 | 36 | 64 | 30 | 72 | 30 | 66 | 31 | 67 | 37 | 58 | 33 | 70 | 37 | 69 | 40 |
| 13... | 56 | 34 | 48 | 31 | 52 | 28 | 50 | 27 | 50 | 30 | 55 | 28 | 50 | 26 | 59 | 33 | 64 | 32 | 48 | 32 | 52 | 35 | 52 | 32 | 52 | 36 | 54 | 38 |
| 14... | 68 | 31 | 65 | 23 | 58 | 19 | 52 | 20 | 52 | 22 | 45 | 20 | 59 | 22 | 50 | 23 | 50 | 23 | 48 | 26 | 58 | 34 | 51 | 26 | 54 | 28 | 59 | 32 |
| 15... | 67 | 32 | 60 | 28 | 60 | 24 | 62 | 28 | 58 | 28 | 50 | 26 | 58 | 27 | 58 | 25 | 68 | 29 | 65 | 28 | 67 | 34 | 58 | 28 | 67 | 30 | 65 | 36 |
| 16... | 68 | 32 | 65 | 41 | 65 | 20 | 63 | 25 | 60 | 25 | 55 | 23 | 62 | 24 | 62 | 26 | 65 | 27 | 62 | 28 | 66 | 31 | 61 | 28 | 66 | 31 | 66 | 34 |
| 17... | 72 | 36 | 72 | 22 | 69 | 20 | 67 | 28 | 66 | 28 | 57 | 51 | 70 | 27 | 67 | 26 | 70 | 29 | 67 | 32 | 70 | 40 | 66 | 33 | 72 | 36 | 64 | 44 |
| 18... | 67 | 42 | 67 | 35 | 70 | 34 | 70 | 42 | 67 | 35 | 58 | 25 | 67 | 35 | 67 | 29 | 78 | ..... | 75 | 36 | 72 | 38 | 67 | 38 | 75 | 40 | 71 | 43 |
| 19... | 71 | 37 | 69 | 29 | 72 | 25 | 70 | 34 | 69 | 28 | 70 | 30 | 68 | 28 | 72 | 29 | 75 | 35 | 70 | 39 | 75 | 38 | 68 | 36 | 73 | 41 | 73 | 40 |
| 20... | 82 | 44 | 79 | 34 | 75 | 27 | 72 | 32 | 74 | 32 | 64 | 32 | 74 | 40 | 75 | 32 | 73 | 35 | 68 | 39 | 72 | 38 | 71 | 35 | 75 | 40 | 74 | 42 |
| 21... | 78 | 48 | 75 | 41 | 75 | 37 | 78 | 41 | 75 | 42 | 73 | 36 | 72 | 40 | 86 | 42 | 89 | 50 | 83 | 45 | 86 | 44 | 75 | 42 | 85 | 46 | 81 | 52 |
| 22... | 88 | 46 | 84 | 41 | 87 | 36 | 81 | 42 | 85 | 42 | 72 | 30 | 84 | 50 | 78 | 32 | 88 | 41 | 77 | 45 | 89 | 44 | 85 | 42 | 90 | 43 | 85 | 49 |
| 23... | 63 | 46 | 73 | ..... | 77 | 35 | 81 | 46 | 74 | 42 | 85 | 45 | 66 | 38 | 88 | 41 | 87 | 56 | 85 | 50 | 76 | 44 | 72 | 47 | 83 | 52 | 69 | 43 |
| 24... | 60 | 36 | 55 | ..... | 61 | 41 | 64 | 38 | 59 | 32 | 63 | 40 | 57 | 35 | 66 | 43 | 76 | 38 | 68 | 42 | 71 | 34 | 57 | 38 | 70 | 41 | 67 | 34 |
| 25... | 62 | 36 | 60 | ..... | 61 | 33 | 63 | 30 | 62 | 32 | 65 | 26 | 57 | 29 | 66 | 33 | 72 | 39 | 69 | 36 | 66 | 32 | 61 | 30 | 66 | 41 | 58 | 37 |
| 26... | 51 | 39 | 52 | ..... | 58 | 35 | 57 | 30 | 51 | 30 | 59 | 22 | 55 | 35 | 62 | 34 | 72 | 43 | 70 | 45 | 71 | 38 | 59 | 30 | 69 | 45 | 53 | 34 |
| 27... | 61 | 35 | 56 | ..... | 51 | 44 | 53 | 36 | 53 | 25 | 57 | 39 | 51 | 35 | 60 | 33 | 73 | 46 | 65 | 45 | 64 | 38 | 56 | 34 | 65 | 43 | 62 | 41 |
| 28... | 62 | 35 | 54 | ..... | 60 | 40 | 66 | 28 | 63 | 27 | 65 | 28 | 58 | 32 | 78 | 28 | 85 | 40 | 78 | 34 | 75 | 37 | 66 | 42 | 81 | 43 | 67 | 38 |
| 29... | 48 | 34 | 35 | ..... | 57 | 35 | 55 | 36 | 42 | 33 | 63 | 26 | 45 | 33 | 68 | 43 | 81 | 42 | 72 | 42 | 65 | 32 | 53 | 36 | 59 | 39 | 52 | 30 |
| 30... | 64 | 28 | 58 | ..... | 52 | 29 | 51 | 31 | 51 | 25 | 39 | 30 | 53 | 26 | 45 | 35 | 62 | 33 | 45 | 33 | 48 | 27 | 50 | 29 | 52 | 34 | 56 | 31 |
| 31... | 57 | 40 | 54 | 34 | 59 | 28 | 63 | 29 | 58 | 32 | 62 | 23 | 52 | 35 | 70 | 25 | 76 | 28 | 74 | 25 | 72 | 30 | 62 | 28 | 72 | 37 | 70 | 33 |
| Mns | 61.6 | 34.9 | 57.2 | 26.5[b] | 58.2 | 27.0 | 57.1 | 29.4 | 54.7 | 27.4 | 53.9 | 27.0 | 55.5 | 29.1 | 58.9 | 29.4 | 66.7[b] | 32.2[a] | 58.5 | 33.1 | 63.9[b] | 33.6[b] | 55.2 | 30.8 | 62.4 | 36.3 | 62.6 | 35.3 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 6*—Continued.

| Date. | South Dakota. | | | | | | Colorado. | | | | Nebraska. | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sioux Falls. | | Watertown. | | Yankton. | | Denver. | | Wray. | | Alma. | | Bridgeport. | | Grand Island.‡‡ | | Hay Springs. | | Hebron. | | Lincoln. | | North Platte. | | Oakdale. | | Omaha. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 42 | 21 | 37 | 20 | 44 | 30 | 64 | 39 | 72 | 21 | 62 | 25 | 65 | 25 | 56 | 27 | 60 | 23 | 56 | 31 | 52 | 32 | 69 | 22 | 47 | 29 | 48 | 33 |
| 2... | 46 | 26 | 44 | 23 | 61 | 34 | 65 | 40 | 73 | 21 | 74 | 29 | 70 | 20 | 70 | 32 | 65 | 35 | 69 | 32 | 70 | 34 | 70 | 32 | 64 | 30 | 68 | 36 |
| 3... | 55 | 33 | 51 | 31 | 58 | 35 | 69 | 36 | 72 | 30 | 72 | 29 | 74 | 34 | 71 | 34 | 65 | 35 | 70 | 30 | 68 | 33 | 68 | 31 | 63 | 32 | 66 | 42 |
| 4... | 58 | 28 | 52 | 31 | 61 | 34 | 73 | 39 | 75 | 30 | 79 | 29 | 72 | 26 | 74 | 35 | 68 | 35 | 75 | 29 | 73 | 32 | 73 | 31 | 66 | 31 | 70 | 38 |
| 5... | 63 | 30 | 57 | 27 | 68 | 30 | 76 | 40 | 84 | 26 | 76 | 31 | 81 | 31 | 74 | 30 | 72 | 32 | 77 | 32 | 74 | 32 | 79 | 30 | 67 | 26 | 72 | 34 |
| 6... | 50 | 28 | 49 | 30 | 51 | 35 | 56 | 35 | 60 | 30 | 53 | 35 | 58 | 30 | 53 | 34 | 65 | 31 | 51 | 37 | 53 | 33 | 59 | 29 | 49 | 28 | 60 | 38 |
| 7... | 43 | 25 | 38 | 23 | 46 | 28 | 71 | 29 | 76 | 24 | 68 | 31 | 62 | 22 | 64 | 27 | 63 | 24 | 62 | 24 | 55 | 29 | 65 | 26 | 52 | 20 | 57 | 32 |
| 8... | 47 | 28 | 39 | 21 | 47 | 28 | 61 | 38 | 60 | 25 | 50 | 32 | 59 | 24 | 52 | 22 | 55 | 28 | 58 | 31 | 55 | 30 | 58 | 25 | 50 | 25 | 52 | 31 |
| 9... | 40 | 28 | 39 | 20 | 39 | 28 | 46 | 31 | 48 | 30 | 50 | 32 | 45 | 23 | 38 | 32 | 48 | 25 | 41 | 32 | 37 | 32 | 37 | 30 | 35 | 26 | 39 | 33 |
| 10... | 42 | 30 | 49 | 27 | 52 | 28 | 60 | 22 | 62 | 21 | 61 | 28 | 65 | 22 | 58 | 26 | 53 | 17 | 53 | 25 | 50 | 29 | 60 | 24 | 47 | 25 | 47 | 29 |
| 11... | 43 | 32 | 44 | 32 | 44 | 33 | 64 | 28 | 66 | 28 | 60 | 29 | 73 | 20 | 55 | 30 | 64 | 32 | 56 | 30 | 52 | 35 | 65 | 27 | 49 | 31 | 45 | 37 |
| 12... | 68 | 30 | 64 | 31 | 72 | 32 | 70 | 36 | 75 | 28 | 80 | 28 | 65 | 25 | 77 | 32 | 68 | 32 | 78 | 29 | 76 | 30 | 74 | 28 | 72 | 30 | 73 | 32 |
| 13... | 59 | 33 | 47 | 32 | 53 | 34 | 68 | 36 | 73 | 28 | 70 | 31 | 62 | 23 | 63 | 33 | 65 | 27 | 68 | 35 | 62 | 39 | 66 | 30 | 56 | 33 | 56 | 39 |
| 14... | 59 | 34 | 45 | 22 | 46 | 26 | 58 | 33 | 60 | 32 | 55 | 25 | 70 | 26 | 51 | 33 | 61 | 23 | 52 | 34 | 49 | 31 | 58 | 25 | 50 | 27 | 45 | 30 |
| 15... | 68 | 28 | 62 | 25 | 66 | 30 | 61 | 32 | 65 | 26 | 60 | 25 | 67 | 27 | 66 | 29 | 65 | 24 | 65 | 26 | 64 | 28 | 67 | 27 | 63 | 28 | 61 | 31 |
| 16... | 70 | 35 | 55 | 26 | 60 | 31 | 64 | 33 | 68 | 27 | 70 | 29 | 67 | 32 | 66 | 32 | 67 | 30 | 67 | 30 | 62 | 32 | 68 | 29 | 62 | 30 | 58 | 38 |
| 17... | 70 | 32 | 66 | 28 | 71 | 33 | 63 | 38 | 69 | 32 | 69 | 29 | 78 | 23 | 74 | 32 | 61 | 32 | 74 | 30 | 73 | 33 | 70 | 35 | 70 | 24 | 72 | 39 |
| 18... | 74 | 40 | 73 | 35 | 75 | 42 | 69 | 38 | 68 | 29 | 75 | 31 | 70 | 28 | 75 | 38 | 73 | 35 | 76 | 42 | 74 | 45 | 76 | 29 | 74 | 35 | 73 | 47 |
| 19... | 74 | 38 | 70 | 32 | 74 | 43 | 74 | 38 | 79 | 32 | 82 | 35 | 75 | 29 | 80 | 35 | 78 | 28 | 75 | 42 | 78 | 39 | 78 | 34 | 76 | 39 | 78 | 46 |
| 20... | 72 | 34 | 65 | 37 | 70 | 37 | 76 | 42 | 81 | 37 | 79 | 36 | 78 | 23 | 73 | 44 | 79 | 32 | 76 | 40 | 73 | 42 | 79 | 38 | 71 | 34 | 73 | 47 |
| 21... | 83 | 40 | 78 | 40 | 86 | 50 | 77 | 45 | 85 | 38 | 89 | 42 | 85 | 35 | 89 | 57 | 82 | 34 | 87 | 42 | 86 | 48 | 86 | 38 | 87 | 46 | 83 | 48 |
| 22... | 86 | ..... | 74 | 42 | 81 | 46 | 78 | 47 | 88 | 39 | 90 | 42 | 85 | 30 | 90 | 42 | 84 | 36 | 90 | 48 | 90 | 54 | 86 | 40 | 88 | 41 | 88 | 56 |
| 23... | 87 | 40 | 82 | 46 | 88 | 52 | 73 | 45 | 85 | 53 | 92 | 58 | 70 | 34 | 90 | 56 | 80 | 35 | 89 | 52 | 88 | 58 | 82 | 43 | 87 | 51 | 87 | 62 |
| 24... | 80 | 33 | 67 | 40 | 72 | 41 | 73 | 32 | 74 | 28 | 77 | 38 | 72 | 25 | 68 | 34 | 68 | 31 | 78 | 42 | 79 | 45 | 74 | 32 | 74 | 34 | 78 | 53 |
| 25... | 82 | 43 | 65 | 33 | 76 | 40 | 65 | 42 | 76 | 37 | 84 | 44 | 65 | 30 | 80 | 44 | 70 | 26 | 84 | 41 | 82 | 42 | 78 | 40 | 80 | 34 | 80 | 54 |
| 26... | 78 | 49 | 63 | 41 | 80 | 47 | 59 | 40 | 77 | 51 | 81 | 43 | 70 | 41 | 76 | 50 | 75 | 40 | 80 | 58 | 84 | 55 | 81 | 47 | 78 | 48 | 84 | 60 |
| 27... | 79 | 50 | 63 | 46 | 71 | 47 | 66 | 34 | 72 | 35 | 76 | 43 | 67 | 38 | 76 | 48 | 65 | 38 | 78 | 47 | 78 | 52 | 71 | 39 | 72 | 40 | 76 | 56 |
| 28... | 62 | 32 | 72 | 33 | 81 | 39 | 72 | 38 | 71 | 38 | 82 | 43 | 80 | ..... | 82 | 46 | 76 | 35 | 84 | 40 | 83 | 43 | 80 | 46 | 82 | 34 | 83 | 52 |
| 29... | 78 | 47 | 71 | 52 | 73 | 55 | 38 | 27 | 59 | 36 | 73 | 58 | ..... | 30 | 70 | 60 | 64 | 32 | 72 | 63 | 75 | 53 | 63 | 37 | 72 | 48 | 71 | 60 |
| 30... | 68 | 33 | 53 | 32 | 55 | 33 | 50 | 18 | 53 | 27 | 57 | 37 | 52 | 25 | 56 | 36 | 46 | 17 | 63 | 44 | 55 | 39 | 51 | 30 | 53 | 33 | 60 | 42 |
| 31... | 72 | 30 | 68 | 29 | 74 | 31 | 65 | 32 | 72 | 28 | 77 | 19 | 67 | 24 | 73 | 22 | 62 | 25 | 69 | 26 | 69 | 32 | 72 | 27 | 73 | 22 | 67 | 36 |
| Mns | 65.1 | 33.3ª | 58.1 | 31.8 | 64.4 | 36.5 | 65.3 | 35.6 | 70.9 | 31.1 | 72.0 | 34.1 | 69.0ª | 26.8ª | 69.7 | 36.3 | 66.8 | 29.9 | 70.1 | 36.9 | 68.4 | 38.4 | 69.0 | 32.3 | 65.6 | 32.8 | 66.7 | 42.3 |

| Date. | Valentine, Nebr. | | Iowa. | | | | | | Kansas. | | | | | | | | | | Missouri. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Clarinda.‡‡ | | Sibley.‡‡ | | Sioux City. | | Colby. | | Concordia. | | Salina. | | Topeka. | | Wakeeney. | | Columbia. | | Kansas City. | | St. Louis. | | Unionville.‡‡ | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 59 | 25 | 52 | 25 | 38 | 25 | 43 | 31 | 70 | 31 | 60 | 34 | 56 | 29 | 57 | 36 | 66 | 27 | 57 | 35 | 58 | 41 | 52 | 35 | 50 | 26 |
| 2 | 65 | 34 | 70 | 31 | 47 | 27 | 57 | 33 | 72 | 31 | 72 | 37 | 74 | 31 | 76 | 36 | 73 | 42 | 70 | 39 | 71 | 43 | 71 | 34 | 66 | 31 |
| 3 | 62 | 35 | 73 | 31 | 57 | 30 | 60 | 37 | 74 | 32 | 76 | 34 | 76 | 30 | 80 | 41 | 75 | 36 | 76 | 33 | 75 | 48 | 68 | 44 | 65 | 30 |
| 4 | 64 | 38 | 72 | 31 | 61 | 31 | 63 | 33 | 78 | 31 | 80 | 34 | 79 | 30 | 81 | 39 | 80 | 32 | 76 | 43 | 79 | 45 | 77 | 52 | 72 | 29 |
| 5 | 74 | 34 | 73 | 32 | 63 | 27 | 65 | 32 | 83 | 28 | 80 | 38 | 81 | 34 | 82 | 42 | 83 | 36 | 81 | 51 | 82 | 53 | 80 | 59 | 76 | 36 |
| 6 | 46 | 25 | 51 | 32 | 43 | 27 | 58 | 36 | 64 | 31 | 57 | 37 | 75 | 41 | 65 | 37 | 68 | 37 | 64 | 37 | 66 | 40 | 67 | 43 | 50 | 42 |
| 7 | 55 | 21 | 57 | 26 | 44 | 25 | 47 | 28 | 77 | 25 | 67 | 28 | 66 | 25 | 65 | 30 | 73 | 29 | 58 | 33 | 60 | 34 | 58 | 37 | 55 | 39 |
| 8 | 50 | 29 | 55 | 28 | 48 | 22 | 50 | 28 | 62 | 29 | 58 | 33 | 61 | 33 | 58 | 36 | 63 | 31 | 57 | 36 | 55 | 36 | 54 | 37 | 56 | 24 |
| 9 | 32 | 27 | 41 | 28 | 40 | 23 | 38 | 28 | 55 | 34 | 46 | 35 | 56 | 30 | 41 | 32 | 54 | 28 | 42 | 33 | 44 | 31 | 42 | 33 | 36 | 26 |
| 10 | 46 | 17 | 51 | 21 | 47 | 23 | 49 | 26 | 63 | 18 | 55 | 26 | 53 | 23 | 52 | 28 | 58 | 19 | 48 | 30 | 48 | 29 | 46 | 31 | 48 | 20 |
| 11 | 56 | 26 | 52 | 21 | 42 | 27 | 42 | 33 | 68 | 27 | 61 | 36 | 65 | 29 | 60 | 36 | 68 | 34 | 60 | 32 | 57 | 37 | 60 | 34 | 51 | 26 |
| 12 | 69 | 36 | 72 | 25 | 66 | 27 | 72 | 39 | 78 | 34 | 80 | 31 | 76 | 28 | 76 | 32 | 79 | 32 | 61 | 28 | 70 | 34 | 56 | 38 | 60 | 30 |
| 13 | 56 | 33 | 51 | 26 | 50 | 30 | 53 | 35 | 72 | 32 | 68 | 41 | 77 | 31 | 67 | 42 | 73 | 37 | 69 | 37 | 68 | 43 | 66 | 43 | 58 | 34 |
| 14 | 53 | 35 | 50 | 27 | 43 | 22 | 45 | 27 | 61 | 32 | 54 | 34 | 53 | 28 | 52 | 34 | 58 | 31 | 47 | 29 | 51 | 34 | 44 | 32 | 45 | 27 |
| 15 | 67 | 33 | 61 | 19 | 60 | 23 | 67 | 29 | 68 | 26 | 64 | 30 | 63 | 25 | 62 | 27 | 66 | 27 | 52 | 20 | 57 | 30 | 49 | 29 | 52 | 20 |
| 16 | 64 | 30 | 63 | 22 | 50 | 25 | 57 | 32 | 68 | 31 | 68 | 36 | 65 | 39 | 69 | 44 | 70 | 31 | 65 | 38 | 69 | 42 | 67 | 40 | 63 | 26 |
| 17 | 70 | 34 | 74 | 27 | 68 | 26 | 71 | 35 | 71 | 33 | 74 | 35 | 66 | 36 | 72 | 36 | 73 | 38 | 67 | 33 | 68 | 45 | 67 | 44 | 70 | 32 |
| 18 | 73 | 33 | 71 | 31 | 73 | 27 | 74 | 43 | 82 | 32 | 70 | 42 | 69 | 43 | 70 | 43 | 75 | 41 | 71 | 41 | 69 | 48 | 71 | 51 | 73 | 38 |
| 19 | 75 | 35 | 74 | 40 | 74 | 34 | 73 | 42 | 90 | 35 | 76 | 46 | 74 | 36 | 76 | 44 | 81 | 42 | 74 | 48 | 74 | 48 | 72 | 53 | 75 | 42 |
| 20 | 74 | 43 | 72 | 41 | 68 | 32 | 70 | 38 | 81 | 38 | 76 | 45 | 78 | 38 | 74 | 49 | 80 | 46 | 70 | 50 | 70 | 54 | 70 | 45 | 70 | 43 |
| 21 | 84 | 44 | 86 | 41 | 78 | 40 | 85 | 47 | 85 | 46 | 87 | 48 | 87 | 46 | 84 | 47 | 86 | 44 | 73 | 39 | 81 | 49 | 70 | 38 | 73 | 36 |
| 22 | 87 | 42 | 92 | 41 | 77 | 42 | 81 | 47 | 87 | 40 | 89 | 55 | 90 | 45 | 90 | 61 | 88 | 48 | 90 | 57 | 90 | 64 | 84 | 58 | 83 | 42 |
| 23 | 80 | 48 | 87 | 51 | 85 | 46 | 88 | 52 | 88 | 52 | 89 | 57 | 88 | 55 | 87 | 56 | 89 | 58 | 88 | 62 | 87 | 62 | 87 | 58 | 86 | 47 |
| 24 | 70 | 40 | 87 | 50 | 73 | 35 | 73 | 41 | 74 | 33 | 79 | 53 | 90 | 56 | 81 | 60 | 80 | 40 | 85 | 60 | 80 | 67 | 86 | 65 | 80 | 52 |
| 25 | 67 | 35 | 88 | 39 | 81 | 36 | 78 | 38 | 82 | 41 | 89 | 46 | 88 | 50 | 87 | 53 | 89 | 48 | 82 | 55 | 84 | 59 | 80 | 62 | 82 | 42 |
| 26 | 73 | 43 | 86 | 43 | 75 | 41 | 81 | 49 | 83 | 54 | 80 | 60 | 86 | 45 | 85 | 61 | 83 | 53 | 86 | 61 | 85 | 65 | 80 | 61 | 85 | 44 |
| 27 | 67 | 45 | 80 | 56 | 69 | 44 | 72 | 46 | 74 | 35 | 78 | 49 | 88 | 47 | 83 | 59 | 77 | 41 | 86 | 64 | 83 | 65 | 87 | 62 | 81 | 52 |
| 28 | 82 | 42 | 84 | 40 | 81 | 35 | 80 | 39 | 81 | 36 | 82 | 45 | 84 | 46 | 82 | 57 | 82 | 43 | 86 | 61 | 83 | 63 | 85 | 65 | 82 | 48 |
| 29 | 51 | 34 | 69 | 42 | 70 | 38 | 70 | 60 | 72 | 34 | 71 | 46 | 74 | 52 | 71 | 57 | 71 | 44 | 78 | 53 | 71 | 56 | 79 | 63 | 80 | 52 |
| 30 | 46 | 29 | 51 | 42 | 43 | 40 | 60 | 38 | 54 | 32 | 59 | 37 | 66 | 40 | 59 | 43 | 55 | 33 | 65 | 47 | 56 | 46 | 78 | 53 | 60 | 50 |
| 31 | 71 | 39 | 68 | 29 | 68 | 23 | 70 | 32 | 71 | 25 | 68 | 29 | ..... | ..... | 67 | 36 | 70 | 20 | 60 | 40 | 66 | 44 | 65 | 48 | 65 | 34 |
| Means | 64.1 | 34.1 | 68.2 | 33.5 | 60.7 | 30.7 | 64.3 | 36.9 | 73.8 | 33.5 | 71.4 | 39.8 | 73.5ª | 37.4ª | 71.3 | 43.0 | 73.7 | 37.0 | 69.2 | 42.4 | 69.3 | 46.9 | 68.3 | 46.7 | 66.1 | 35.8 |

# Climatological Data for March, 1910.
## DISTRICT No. 7, LOWER MISSISSIPPI VALLEY.

ISAAC M. CLINE, District Editor.

### GENERAL SUMMARY.

Warm weather was general over the district during the first 7 days of the month; on the 8th, a change to cooler took place, and from the 8th to 12th cool weather prevailed and killing frosts occurred southward over a large portion of Arkansas. Moderate temperature conditions prevailed from the 12th to 14th. Another cool period overspread the district from the 15th to 18th, giving freezing temperatures southward into Arkansas and Mississippi.

Precipitation was mainly in the form of snow in the mountainous portions of the New Mexico and Colorado areas, and rain elsewhere over the district, except that there was some snow in the Kansas and Missouri areas. Periods of precipitation were not well defined, but there were three periods of scattered showers. The first showery period occurred on the 9th and 10th in the western, and 10 and 11th in the eastern portion of the district. The rainfall during this period was generally light. The second period occurred generally from the 14th to 21st, and, during this time, light showers occurred over the greater portion of the district. The third rainy period extended from the 28th to 31st, and most of the monthly precipitation occurred during this time. Scattered showers occurred on other dates, also, but, taken as a whole, the precipitation was not sufficiently well distributed throughout the month to meet agricultural requirements.

### TEMPERATURE.

High temperatures prevailed during the month, the mean being above the normal over the entire district. The greatest excess, more than 14°, occurred over the Kansas area and the western portion of the Missouri area; elsewhere, the excess ranged from 1.7° to 11.5°. The maximum temperature reached, or exceeded, 90° at some stations in all parts of the district, except in the Colorado and New Mexico areas, and the highest recorded was 100°, at Hugoton, Kans. Except in southern Louisiana, the monthly minimum temperatures were generally below 32°, and in the mountainous portions of the Colorado and New Mexico areas they were generally below 20°. The lowest temperature recorded was zero at Lake Moraine, Colo.

Monthly mean temperatures and departures from the normal for the various States and areas are reported as follows: Colorado area, 46.7°, +9.4°; New Mexico area, 49.9°, +6.1°; Texas area, 58.8, +9.5; Kansas area, 56.8°, +12.4°; Oklahoma, 60.1°, +8.8°; Missouri area, 57.6°, +10.5°; Tennessee area, 59.0°, +9.4°; Arkansas, 60.7°, +8.4°; Mississippi area, 62.5°, +5.4°; Louisiana, 64.4°, +3.3°.

### PRECIPITATION BY DRAINAGE AREAS.

*Arkansas River and tributaries.*—Unusually dry weather prevailed throughout the Arkansas Basin. Over the headwaters of this basin, in Colorado, the precipitation from 35 stations averaged 0.58 inch, being about 0.6 inch below the normal. No precipitation worthy of mention occurred over the Valley of the Arkansas proper in Kansas and Oklahoma; the amounts from 28 stations averaged 0.20 inch, and the average deficiency was 1.49 inch. The precipitation was uniformly light in the Cimarron Valley, where the amounts form 20 stations averaged 0.16 inch, being 1.26 inch below the normal. The amounts from 40 stations covering the headwaters of the Canadian in New Mexico averaged 0.17 inch, which is about one-third of the normal; over the stretches of the Canadian that lie in Texas and Oklahoma, the precipitation from 21 stations averaged 0.35 inch, being 1.72 inch below the normal. The precipitation over the Verdigris and Neosho valleys averaged about 0.25 inch, and the average deficiency was about 2 inches. The precipitation over that portion of the Arkansas Basin below the Oklahoma-Arkansas line ranged generally between 0.50 inch and 2 inches; the amounts from 16 stations averaged 0.96 inch, being about 3.7 inches below the normal.

*Red River and tributaries.*—Very little precipitation occurred over the stretches of this basin in New Mexico, Texas, and Oklahoma, except in scattered localities; the amounts from 41 stations averaged 0.98 inch, being about 1.8 inch below the normal. Over those portions of the valley that lie in Arkansas and Louisiana, the precipitation ranged generally between 1 inch and 2.5 inches; the amounts from 17 stations averaged 1.79 inch, being about 3 inches below the normal.

*Mississippi south of St. Louis and small tributaries.*—The droughty conditions of the western portion of the district extended eastward over this area. In the immediate Mississippi Valley, the amounts from 46 stations averaged only 1.03 inch and the deficiency was about 4 inches. Only a few scattered stations reported 2 inches or more. There was a deficiency of about 3 inches in the Valley of the Meramec. The precipitation was uniformly light over the White River Basin; the amounts from 21 stations averaged 1.30 inch, being about 3.5 inches below the normal. Over the valleys of the Yazoo and the Big Black, the precipitation from 28 stations averaged 0.58 inch and the deficiency was 5.5 inches. There was generally between 1 inch and 2 inches of precipitation over the Ouachita Valley; the amounts from 19 stations averaged 1.54 inch, being about 4.2 inches below the normal.

*Louisiana coastal plain.*—Very little precipitation occurred over this area; the amounts from 24 stations averaged 0.99 inch, being 3.4 inches below the normal. Only 3 stations reported 2 inches or more.

Average monthly precipitation and departures from the normal for the various States and areas are reported as follows: Colorado area, 0.53, −0.61; New Mexico area, 0.19, −0.33; Texas area, 0.80, −1.63; Kansas area, 0.12, −1.43; Oklahoma, 0.43, −1.83; Missouri area, 1.10, −3.01; Tennessee area, 0.84, −4.30; Arkansas, 1.39, −3.68; Mississippi area, 0.67, −5.39; Louisiana, 1.19, −3.58.

### SNOWFALL.

Moderately heavy snow fell in the mountainous portions of the Colorado and New Mexico areas, and light snowfall was general over the Missouri area, and the eastern portion of the Kansas area. Aside from this no snow fell in the district, except a trace at one station in Arkansas and small amounts at 2 stations in the Texas Panhandle. The warm weather during the month caused a rapid settling of the snow at high altitudes, and the thawing by day and freezing by night rapidly solidified the drifts. The outlook for a flow of irrigation water, above the average amount, was excellent at the close of the month. The average snowfall (in inches) for the various States and areas during the month, as derived from the records of such stations as reported snow, is as follows: Colorado area, 9.1; New Mexico area, 2.2; Kansas area, 0.1; Missouri area, 0.4; Texas area, trace; Arkansas, trace.

### RIVERS.

No flood occurred in the Arkansas, White, Red, and Ouachita rivers, and all streams were low at the close of the month. Below St. Louis, the Mississippi was rising at all stations at the opening of the month. The flood stage was reached at Memphis on the 17th, and the stage was 33.1 feet on the 18th and 19th. Flood stages were not recorded at any station below Memphis, and a general fall was in progress at the close of the month.

NOTES.

Reports from Kansas state that farm and building operations progressed uninterruptedly during the month. Early peaches, pears, plums, and apricots were in blossom, and shade trees were leafing at the close of the month.

The Reclamation Record for April, 1910, reports the Kansas Garden City Project (98 per cent completed): "The work on the Garden City Project during the month of March consisted of overhauling the machinery in the power plant and pump houses and preparing it for an indefinite period of disuse."

Mr. Charles F. Rudolph, of Rociado, N. Mex., states: "Unusually warm weather during the month melted the snow in the mountains and the streams were all running full, diminishing summer water supply."

Tulia, Tex., reports a hard freeze on the 31st. As a rule, farmers smudged their orchards, thereby saving some thousands of dollars.

In Arkansas the weather was ideal for outdoor work. Navigation on the Arkansas River was practically suspended after March 17 on account of low water.

## SMUDGE POTS FOR THE PREVENTION OF FROSTS, WICHITA, KANS.

By RICHARD H. SULLIVAN, Local Forecaster.

The inclosed series of observations were taken for the benefit of members of the Sedgwick County Horticultural Society and others in connection with the frost warnings of March 30 and April 5 and tests of Troutman smudge pots in the 1-acre orchard of Mr. Albert Kunkel, in Wichita, on March 31 and April 6, and in a selected plat of the orchard of the Thomas Orchard Company, 3 miles west of Wichita, on April 6. The readings for the Kunkel orchard on March 31 and the Thomas orchard on April 6 were made by the writer, 2 minimum and 5 exposed thermometers, 1 anemometer, and 1 commercial thermometer being used.

On Mr. Kunkel's place 79 pots to the acre were used on March 31 and 70 pots to the acre on April 6; his fruit is still unharmed. In the Thomas orchard 50 pots to the acre, or 500 pots in all, were used among Jonathan and Grime's golden apple trees. Unfortunately, the temperature in the latter orchard could not be kept above freezing after 4 a. m. on account of lack of fuel oil. The small number of pots to the acre made it necessary to run them at nearly full capacity, and in order to carry the heat through to sunrise the lighting was delayed until 2 a. m. However, the manager does not consider his loss as great as in some orchards in the vicinity.

The figures show that with from 70 to 80 pots to the acre a fruit crop can be saved when the temperature falls to 25°, or even to 22°, if the work is done thoroughly and systematically. These are the first known practical tests of this character that have been made in this vicinity, and the whole proposition rests upon the question of how much expense for such insurance the investment can stand and still render a profit.

Where artificial methods of prevention of damage were not used during the freezes of March 31 and April 6, especially in the lowlands, there was general loss of apricots, peaches, plums, pears, and a very large proportion of apple buds, making the third series of disastrous spring frosts in 4 years. Last year the whole fruit tree crop was killed by a single freeze during the night of April 30–May 1, warning of which was given the day before.

There is now a general disposition among local horticulturists to adopt the methods of commercial fruit growers elsewhere to prevent damage by frosts and freezes, and the belief is steadily growing that the warnings of this service must be heeded if loss is to be avoided.

Comparative temperature, wind velocity, and weather readings made by the writer in connection with test of central-draft smudge pots for prevention of damage by frost or freezing in the orchard of Albert Kunkel, No. 734 South Washington street, Wichita, Kans. Half-hourly observations were taken from midnight of March 30–31 to 7:30 a. m., March 31. The arrangement and height of the various instruments are indicated by the letters in the diagram and the explanation herewith. The smudge pots, 79 in number, were lighted between 5:30 and 5:45 a. m., March 31, and extinguished at 7:30 a. m. The temperatures at 6 a. m. in the accompanying table show the effectiveness of such a method during frosty periods. Fuel oil, costing 4 cents per gallon, was used.

Winds—Northwesterly to 2:30 a. m.; northerly to 6:30 a. m.; northeasterly to 7:30 a. m.

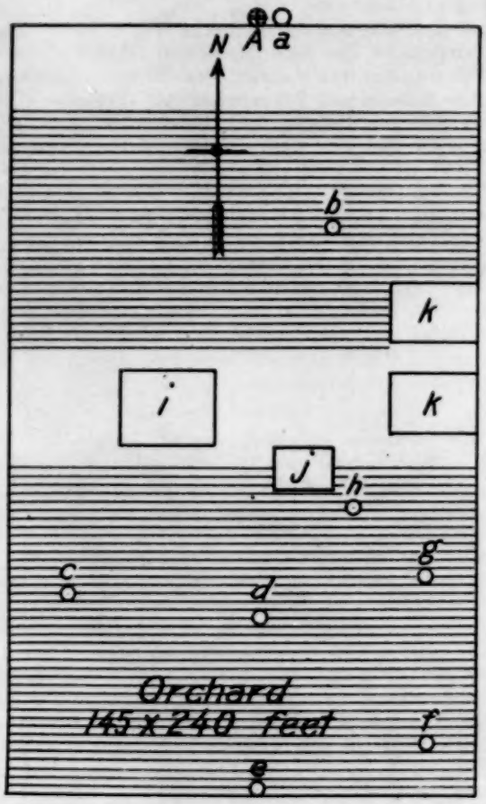


FIG. 1.

Shaded areas show limits of smudge pots.

*A*—Weather Bureau anemometer, 5 feet above ground.

*a*—Weather Bureau minimum thermometer No. 6733, 3 feet 8 inches above ground.

*b*—Weather Bureau standard thermometer No. 4403, 4 feet 9 inches above ground.

*c*—Weather Bureau standard thermometer No. 4788, 4 feet 9 inches above ground.

*d*—Weather Bureau standard thermometer No. 4789, 4 feet 9 inches above ground.

*e*—Weather Bureau minimum thermometer No. 9436, 3 feet 8 inches above ground.

*f*—Weather Bureau standard thermometer No. 3135, 4 feet 9 inches above ground.

*g*—Weather Bureau standard thermometer No. 5671, 4 feet 9 inches above ground.

*h*—Commercial thermometer, 1 foot above ground.

*i*—Residence.

*j*—Greenhouse.

*k*—Barn.

Comparative temperature, wind velocity, and weather readings made by the writer in connection with test of central-draft smudge pots for prevention of damage by frost or freezing in the orchard of the Thomas Orchard Company, 3 miles west of Wichita. The smudged portion of the orchard was a selected 10-acre plat containing Jonathan and Grime's golden apples; the pots were arranged 50 to the acre, or 500 in all. The instruments were placed at a height of 6 feet, except 1 commercial thermomter, which was located 1 foot above the ground near the center. The thermometers are arranged in the table in the order of reading. The pots were charged with 3 quarts of fuel oil, and lighting was delayed until 2 a. m. on account of lack of oil. The 500 pots were lighted between 2 and 2:35 a. m., and insufficient oil to hold the fires at reasonable capacity resulted in inability to keep temperature above freezing after 4 a. m., and by daylight practically all of the oil had been consumed.

Winds—Northwesterly to 4:30 a. m.; westerly after 4:30 a. m.

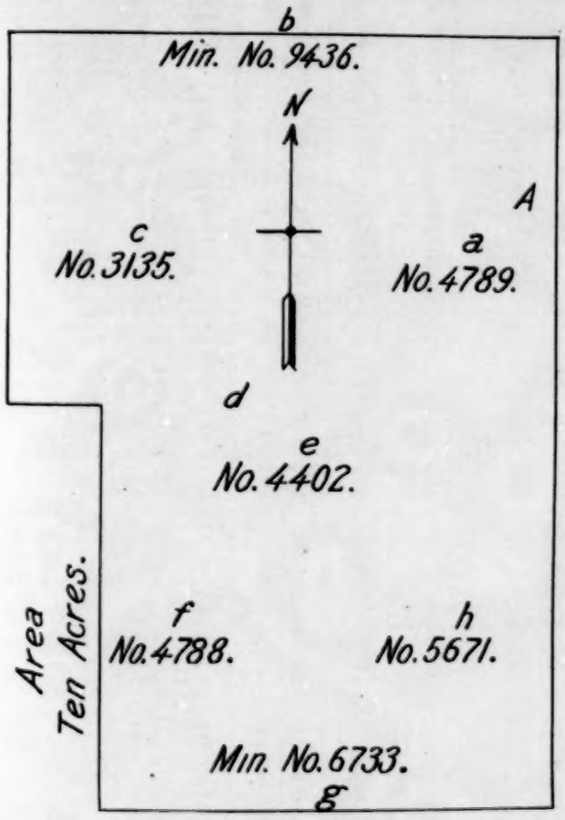


FIG. 2.

Letters indicate corresponding instruments in table.
Numbers indicate United States Weather Bureau thermometers.
*d*—Commercial thermometer.
*A*—Anemometer.

TABLE 1.—*Temperature, weather, and wind velocity.*

[Letters in heading indicate position of thermometers.]

| Time. | *a* | *b* | *c* | *d* | *e* | *f* | *g* | *h* | Weather. | *A* |
|---|---|---|---|---|---|---|---|---|---|---|
| | ° | ° | ° | ° | ° | ° | ° | ° | | *Miles.* |
| 12:00 midnight | 39.0 | 40.5 | 41.0 | 41.0 | 39.0 | 41.0 | 40.5 | 39.0 | Clear. | 0.2 |
| 12:30 a. m. | 38.5 | 40.0 | 39.5 | 39.5 | 38.5 | 39.5 | 39.5 | 38.0 | Clear | 0.2 |
| 1:00 a. m. | 36.5 | 38.5 | 38.0 | 38.0 | 37.0 | 38.5 | 38.5 | 37.0 | Clear. | 0.2 |
| 1:30 a. m. | 35.5 | 37.5 | 37.0 | 37.0 | 36.0 | 38.0 | 37.5 | 36.0 | Clear. | 0.2 |
| 2:00 a. m. | 35.0 | 37.0 | 37.0 | 36.0 | 35.5 | 36.0 | 36.0 | 34.5 | Clear. | 0.3 |
| 2:30 a. m. | 34.0 | 36.0 | 35.5 | 35.5 | 34.0 | 35.5 | 35.5 | 34.0 | Clear. | 0.3 |
| 3:00 a. m. | 35.5 | 37.0 | 37.5 | 37.0 | 36.0 | 37.5 | 37.0 | 35.0 | Clear. | 0.4 |
| 3:30 a. m. | 36.0 | 37.0 | 39.0 | 39.0 | 37.0 | 38.5 | 38.0 | 36.0 | Clear. | 0.5 |
| 4:00 a. m. | 36.5 | 37.0 | 36.5 | 36.0 | 35.5 | 37.0 | 37.0 | 36.0 | Clear. | 0.3 |
| 4:30 a. m. | 35.5 | 36.5 | 36.0 | 36.0 | 35.0 | 36.5 | 36.0 | 35.0 | Clear. | 0.3 |
| 5:00 a. m. | 33.0 | 34.0 | 33.5 | 33.0 | 33.0 | 34.0 | 33.0 | 31.0 | Clear. | 0.2 |
| 5:30 a. m. | *31.0 | 32.5 | 32.5 | 32.0 | †31.5 | 33.0 | 33.0 | 30.0 | Clear. | 0.2 |
| 6:00 a. m. | 31.0 | 44.0 | 40.5 | 38.0 | 34.0 | 38.0 | 38.0 | 36.0 | Clear. | 0.3 |
| 6:30 a. m. | 33.0 | 39.0 | 40.0 | 38.5 | 34.5 | 37.5 | 38.0 | 38.0 | Clear. | 0.4 |
| 7:00 a. m. | 35.5 | 38.0 | 38.0 | 37.5 | 35.5 | 38.0 | 39.0 | 38.0 | Clear. | 0.5 |
| 7:30 a. m. | 40.0 | 40.5 | 41.0 | 41.0 | 40.0 | 40.5 | 40.5 | 40.0 | Clear. | 0.5 |

* Lowest temperatures recorded, 30.5° between 5:00 and 5:30 a. m.
79 smudge pots lighted, beginning at 5:30 a. m. and ending at 5:45 a. m.

Second test made by Mr. Albert Kunkel, No. 734 South Washington Street, Wichita, Kans. Number of pots lighted, 70.

TABLE 2.—*Temperature and weather table.*

[Letters in heading indicate location of thermometers as shown on diagram of March 31, 1910.]

| Time. | *a* | *b* | *c* | Weather. |
|---|---|---|---|---|
| | ° | ° | ° | |
| 3:00 a. m. | 30 | 32 | ..... | Clear. |
| 3:30 a. m. | 28 | 31 | ..... | Clear. |
| 4:00 a. m. | 27 | 34 | ..... | Clear. |
| 4:30 a. m. | 26 | 35 | ..... | Clear. |
| 5:00 a. m. | 26 | 36 | ..... | Clear. |
| 5:30 a. m. | 27 | 36 | 37 | Clear. |
| 6:00 a. m. | 28 | 38 | 38 | Clear. |
| 6:30 a. m. | 28 | 35 | 38 | Clear. |
| 7:00 a. m. | 30 | 38 | 38 | Clear. |

70 smudge pots lighted, beginning at 3:30 a. m.

TABLE 3.—*Temperature, weather, and wind velocity.*

[Letters in heading indicate position of thermometers.]

| Time. | *a* | *b* | *c* | *d* | *e* | *f* | *g* | *h* | Weather. | *A* |
|---|---|---|---|---|---|---|---|---|---|---|
| | ° | ° | ° | ° | ° | ° | ° | ° | | *Miles.* |
| 12:00 midnight | 31.5 | 31.5 | 32.0 | 31.5 | 32.0 | 31.0 | 31.0 | 31.0 | Clear. | 0.2 |
| 1:00 a. m. | 31.0 | 31.0 | 31.0 | 32.0 | 31.5 | 31.0 | 31.0 | 30.5 | Clear. | 0.2 |
| 2:00 a. m. | 30.0 | *30.0 | 30.0 | 30.0 | 30.0 | 29.5 | 31.5 | 29.5 | Clear. | 0.1 |
| 3:00 a. m. | 33.5 | 33.5 | 33.5 | 35.0 | 34.0 | 33.5 | 34.5 | 33.0 | Clear. | 0.1 |
| 4:00 a. m. | 32.5 | 32.0 | 32.5 | 32.0 | 32.5 | 32.5 | 33.5 | 32.0 | Clear. | 0.1 |
| 5:00 a. m. | 31.0 | 31.5 | 31.0 | 31.5 | 30.5 | 29.0 | 30.0 | 30.0 | Clear. | 0.2 |
| 6:00 a. m. | 31.0 | 30.0 | 30.0 | 30.0 | 30.0 | 29.0 | 29.0 | 28.5 | Clear. | 0.1 |

* Lowest temperature recorded, 29.0° between 1:00 and 2:00 a. m.
500 smudge pots lighted, beginning at 2:00 a. m. and ending at 6:35 a. m.

*Additional report. April 30, 1910.*

Further trials in the Thomas orchard on April 19, 24–25, fully confirm the efficacy of the firing methods above explained in detail. The wind-velocity records show, as was to be expected, that the most damaging temperatures occur after the wind has died down. Artificial preventive methods can be used effectively despite the oft-repeated arguments that it is too windy in Kansas.

TABLE I.—*Climatological data for March, 1910. District No. 7, Lower Mississippi Valley.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Colorado.* | | | | | | | | | | | | | | | | | | | | |
| Blaine | Baca | 3,935 | 18 | 32.6 | +10.6 | 86 | 25 | 19 | 10 | 49 | T. | − 0.79 | T. | 0.0 | 0 | 23 | 8 | 0 | w. | M. M. Myers. |
| Buena Vista | Chaffee | 7,955 | 10 | 39.8 | ..... | 66 | 20† | 7 | 10 | 41 | 0.10 | ..... | 0.05 | 2.0 | 2 | 26 | 1 | 4 | w. | C. A. Short. |
| Calhan | El Paso | 6,700 | 3 | 46.2 | ..... | 72 | 21 | 13 | 30 | 38 | 1.05 | ..... | 1.05 | 7.0 | 1 | 27 | 2 | 2 | sw. | H. B. Rice. |
| Canon City | Fremont | 5,329 | 22 | 54.6 | +12.0 | 78 | 21† | 29 | 9 | 43 | 0.25 | − 0.50 | 0.25 | 0.0 | 1 | 22 | 9 | 0 | se. | Thos. J. Tynan. |
| Colorado Springs | El Paso | 6,098 | 30 | 47.4 | +10.4 | 72 | 22 | 17 | 10 | 38 | 0.15 | − 0.60 | 0.13 | 1.1 | 2 | 24 | 6 | 1 | ..... | Colorado College. |
| Cripple Creek | Teller | 9,396 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.77 | ..... | 0.65 | 12.0 | 2 | ..... | ..... | ..... | ..... | F. G. Willis. |
| Cuchara Camps | Huerfano | 8,200 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.40 | ..... | 0.24 | 4.3 | 4 | 26 | 5 | 0 | sw. | Geo. A. Mayes. |
| Eads | Kiowa | 4,209 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | W. H. Lauck. |
| Fairview | Custer | 9,500 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.95 | ..... | 1.64 | 17.5 | 2 | 23 | 7 | 1 | e. | Elizabeth L. Gray. |
| Florence | Fremont | 5,183 | 1 | 53.4 | ..... | 82 | 21 | 25 | 10 | 41 | 0.00 | ..... | 0.00 | 0.0 | 0 | 25 | 3 | 3 | w. | W. G. Fish. |
| Garfield | Chaffee | 9,510 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.64 | ..... | 0.22 | 7.0 | 5 | 27 | 2 | 1 | ..... | Lloyd N. Felton. |
| Glen Eyrie | El Paso | 6,500 | 18 | 45.3 | + 9.2 | 77 | 22 | 11 | 10 | 48 | 0.18 | − 0.97 | 0.18 | 2.0 | 1 | 22 | 8 | 1 | n. | C. Nickell. |
| Hamps | Elbert | 5,400 | 17 | 44.6ª | + 8.7 | 78ª | 20 | 12ª | 10 | 54ª | 0.50 | − 0.49 | 0.50 | 6.0 | 1 | 24 | 5 | 2 | s. | W. Hamp. |
| Hermit Lake | Custer | 10,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.37 | ..... | 0.89 | 24.0 | 5 | 21 | 4 | 6 | sw. | Jonh E. Graham. |
| Hoehne (near) | Las Animas | 5,700 | 18 | 50.8 | +11.0 | 87 | 20 | 21 | 31 | 57 | 0.30 | − 0.39 | 0.30 | 4.0 | 1 | 24 | 7 | 0 | sw. | S. W. DeBusk. |
| Holly | Prowers | 3,380 | 15 | 53.8 | ..... | 87 | 23 | 17 | 10 | 55 | 0.00 | − 0.32 | 0.00 | 0.0 | 0 | 26 | 3 | 2 | se. | R. I. Arneson. |
| Lake Moraine | El Paso | 10,265 | 16 | 32.3 | + 8.6 | 54 | 12 | 0 | 10 | 48 | 1.74 | − 0.16 | 0.81 | 24.8 | 7 | 17 | 12 | 2 | sw. | Clyde C. Mc Reynolds. |
| Lamar | Prowers | 3,592 | 20 | 53.5 | +10.3 | 88 | 22† | 21 | 10 | 53 | 0.00 | − 0.94 | 0.00 | 0.0 | 0 | 28 | 3 | 0 | sw. | J. T. Lawless. |
| Las Animas | Bent | 3,899 | 42 | 50.2 | + 9.0 | 86 | 22† | 20 | 1 | 56 | 0.30 | − 0.24 | 0.30 | 0.0 | 1 | 22 | 4 | 5 | se. | F. M. Tague. |
| La Veta Pass | Costilla | 9,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.25 | ..... | 0.80 | 9.2 | 2 | 18 | 9 | 4 | w. | Norman R. Lively. |
| Leadville | Lake | 10,248 | 14 | 31.9 | + 8.7 | 55 | 21 | 4 | 10 | 57 | 1.04 | − 0.89 | 0.57 | 16.3 | 7 | ..... | ..... | ..... | n. | U. S. Weather Bureau. |
| Limon (near) | Elbert | 5,360 | 3 | 45.3 | ..... | 78 | 22 | 10 | 30 | 52 | 0.00 | ..... | 0.00 | 0.0 | 0 | 31 | 0 | 0 | sw. | John Lesher. |
| Marshall Pass | Saguache | 10,846 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.58 | ..... | 0.58 | 18.0 | 2 | 22 | 5 | 4 | w. | W. D. Lillard. |
| North Lake | Las Animas | 8,700 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.52 | ..... | 0.25 | 5.5 | 3 | 26 | 2 | 3 | nw. | James W. Ingmire. |
| Pueblo | Pueblo | 4,734 | 22 | 51.2 | +10.6 | 81 | 22 | 24 | 31 | 49 | 0.05 | − 0.47 | 0.05 | 0.0 | 1 | 24 | 6 | 1 | nw. | U. S. Weather Bureau. |
| Rockyford (near) | Otero | 4,177 | 21 | 51.8 | +10.9 | 85 | 22 | 15 | 10 | 55 | 0.35 | − 0.33 | 0.35 | T. | 1 | 27 | 3 | 1 | sw. | P. K. Blinn. |
| St. Elmo | Chaffee | 9,500 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.03 | ..... | 0.36 | 11.7 | 4 | 23 | 4 | 4 | sw. | Daniel Clark. |
| Salida | do | 7,035 | 12 | 42.1 | + 5.3 | 69 | 22 | 11 | 10 | 44 | 0.80 | + 0.03 | 0.40 | 5.5 | 3 | 25 | 4 | 2 | w. | M. D. L. Buell. |
| Santa Clara | Huerfano | 8,250 | 15 | 43.9 | + 9.3 | 70 | 21† | 12 | 10 | 41 | 0.09 | − 1.85 | 0.04 | 2.5 | 3 | 17 | 14 | 0 | ..... | Lincoln Morris. |
| Sheridan Lake | Kiowa | 4,063 | 9 | 53.2 | ..... | 85 | 21 | 13 | 6 | 52 | T. | ..... | T. | 0.0 | 0 | 31 | 0 | 0 | sw. | Howard Gamble. |
| Stonewall | Las Animas | 8,000 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.19 | ..... | 0.09 | 4.0 | 3 | 19 | 10 | 2 | ..... | J. W. Shouse. |
| Trinidad | do | 5,994 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.05 | − 0.54 | 0.05 | 1.0 | 1 | 27 | 3 | 1 | ..... | Mrs. Maggie Butler. |
| Victor (near) | Teller | 10,100 | 6 | 42.2 | ..... | 68 | 20 | 16 | 30 | 35 | 0.87 | ..... | 0.60 | 13.0 | 4 | 24 | 6 | 1 | e. | Fred Jones. |
| Vilas | Baca | 3,935 | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | − 0.55 | T. | T. | 0 | 24 | 7 | 0 | sw. | Carrie Konkel. |
| Westcliffe | Custer | 7,864 | 16 | 40.9 | + 7.8 | 68 | 20 | 6 | 10 | 45 | 0.58 | − 0.72 | 0.53 | 6.5 | 3 | 20 | 8 | 3 | nw. | Zack Jordan. |
| Winfield | Chaffee | 9,765 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.66 | ..... | 0.29 | 10.5 | 5 | 12 | 17 | 2 | w. | John G. Payne. |
| Wortman | Lake | 11,250 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.48 | ..... | 0.40 | 31.0 | 5 | 22 | 4 | 5 | nw. | Geo. C. Wortman. |
| *New Mexico.* | | | | | | | | | | | | | | | | | | | | |
| Abbott | Mora | 5,771 | ..... | ..... | ..... | 80 | 3 | 28 | 1† | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 10 | 21 | 0 | w. | El Paso & Southwest. R. R. |
| Albert | Union | 4,700 | 19 | 55.5 | + 7.2 | 84 | 5 | 28 | 30† | 47 | 0.00 | − 0.50 | 0.00 | 0.0 | 0 | 21 | 10 | 0 | w. | Andrew Knell. |
| Arch (near) | Roosevelt | 4,634 | 1 | 49.0ᵉ | ..... | 70ᵉ | 3† | 25ᵉ | 9† | 40ᵉ | 0.80 | ..... | 0.80 | 0.0 | 1 | 22 | 2 | 7 | s. | Wm. A. Elliott. |
| Aurora | Colfax | 5,849 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.29 | ..... | 0.17 | 5.0 | 2 | 3 | 25 | 3 | nw. | Miss Juanita Lucero. |
| Bell Ranch | San Miguel | 4,500 | 11 | 55.7 | ..... | 86 | 5 | 24 | 31 | 58 | 0.33 | − 0.12 | 0.15 | 0.0 | 3 | 22 | 6 | 3 | s. | C. M. O'Donel. |
| Black Lake | Colfax | 8,348 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.22 | ..... | 0.22 | 3.0 | 1 | 18 | 9 | 4 | w. | Ralph T. Martinez. |
| Cabeza | San Miguel | 5,406 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | 0.0 | 0 | 22 | 7 | 2 | w. | El Paso & Southwest. R. R. |
| Campana | do | 4,493 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.08 | ..... | 0.08 | 0.0 | 1 | 14 | 14 | 3 | w. | Do. |
| Chacon | Mora | 9,000 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.27 | ..... | 0.27 | 3.0 | 1 | 10 | 17 | 4 | w. | Alfredo Lucero. |
| Cimarron (near) | Colfax | 6,385 | 6 | 48.1 | ..... | 77 | 5 | 20 | 30† | 48 | 0.14 | ..... | 0.12 | 1.2 | 2 | 16 | 12 | 3 | e. | Wm. French. |
| Clayton | Union | 5,178 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Dr. W. W. Chilton. |
| Clovis | Curry | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | A. Mendenhall. |
| Cuervo | Guadalupe | 4,849 | ..... | 56.7 | ..... | 83 | 5 | 27 | 30 | 38 | 0.08 | ..... | 0.08 | 0.0 | 1 | 18 | 13 | 0 | s. | El Paso & Southwest. R. R. |
| Dawson | Colfax | 6,396 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.10 | ..... | 0.10 | 1.0 | 1 | 26 | 0 | 5 | ..... | Do. |
| Dorsey (near) | do | 6,000 | 5 | 48.0 | ..... | 77 | 5 | 18 | 30 | 48 | T. | ..... | T. | 0.2 | 0 | 19 | 11 | 1 | sw. | Geo. T. Lambert. |
| Elisabethtown | do | 8,465 | 4 | 36.7 | ..... | 63 | 21 | 6 | 30† | 42 | 0.37 | ..... | 0.18 | 4.3 | 3 | 14 | 14 | 3 | w. | Miss Mabel Carrington. |
| Folsom | Union | 6,309 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | − 0.73 | T. | T. | 0 | 24 | 5 | 2 | sw. | David Rope. |
| Fort Union | Mora | 6,835 | 50 | 44.8 | + 4.2 | 75 | 5 | 2 | 30 | 52 | 0.57 | + 0.03 | 0.45 | T. | 2 | 26 | 2 | 3 | sw. | M. C. Needham. |
| Hayden | Union | 4,444 | 1 | 49.6 | ..... | 78 | 23† | 23 | 11 | 43 | 0.00 | ..... | 0.00 | 0.0 | 0 | 21 | 0 | 10 | sw. | Geo. L. Cook. |
| Johnsons Park | Colfax | 6,722 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | T. | 0 | 25 | 5 | 1 | sw. | A. J. Meloche, jr. |
| Lake Alice | do | 7,160 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Raton Water Co. |
| Logan | Quay | 3,851 | 4 | 54.6 | ..... | 87 | 5† | 21 | 11† | 57 | 0.00 | ..... | 0.00 | 0.0 | 0 | 25 | 5 | 1 | sw. | John B. Reneau. |
| Los Alamos | San Miguel | 6,789 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.36 | ..... | 0.27 | 4.0 | 3 | 19 | 7 | 5 | w. | Wm. Frank, sr. |
| Lykins (near) | Roosevelt | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | sw. | J. G. Buchanan. |
| Maxwell (near) | Colfax | 5,894 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | ..... | ..... | ..... | ..... | D. N. Jackson. |
| Melrose | Curry | 4,400 | 2 | 54.3 | ..... | 85 | 25 | 28 | 11 | 49 | 0.70 | ..... | 0.70 | 0.0 | 1 | 28 | 2 | 1 | sw. | Miss Lois E. Porter. |
| Miami Ranch | Colfax | 6,000 | 2 | 47.8ª | ..... | 75ª | 5 | 17ª | 10† | 46ª | 0.00 | ..... | 0.00 | 0.0 | 0 | 15 | 16 | 0 | w. | Farmers' Devel. Co. |
| Montoya | Quay | 4,335 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | El Paso & Southwest. R. R. |
| Nara Visa | do | 4,225 | 4 | 55.6 | ..... | 85 | 25 | 26 | 30 | 46 | 0.11 | ..... | 0.11 | 0.0 | 0 | 20 | 3 | 8 | sw. | Willard Belknap. |
| Pasamonte | Union | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 20 | 3 | 8 | sw. | J. J. Heringa. |
| Raton | Colfax | 6,660 | 12 | 49.0 | + 8.3 | 77 | 5 | 19 | 31 | 49 | 0.15 | − 0.39 | 0.15 | 3.0 | 1 | 26 | 3 | 2 | s. | Prof. R. C. Crum. |
| Rociada | San Miguel | 8,200 | 6 | 42.8 | ..... | 70 | 5 | 2 | 30 | 45 | 0.65 | ..... | 0.23 | 6.0 | 4 | 18 | 11 | 2 | w. | Chas. F. Rudolph. |
| Roy | Mora | 5,884 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | 0.0 | 0 | 3 | 24 | 4 | ne. | El Paso & Southwest. R. R. |
| San Jon | Quay | 4,300 | 3 | 55.9 | ..... | 86 | 25 | 25 | 30† | 49 | 0.20 | ..... | 0.20 | 0.0 | 2 | 25 | 5 | 1 | sw. | Jesse T. White. |
| Solano(1) | Mora | 5,622 | 1 | 50.4 | ..... | 79 | 5† | 30 | 30 | 51 | 0.32 | ..... | 0.24 | 2.0 | 3 | 24 | 4 | 3 | sw. | F. M. Hughes. |
| Springer | Colfax | 5,857 | 14 | 47.4 | + 4.8 | 76 | 5† | 14 | 31 | 56 | 0.00 | − 0.39 | 0.00 | 0.0 | 0 | 28 | 3 | 0 | w. | Atch., Top. & S. Fe Ry. |
| Taylor | do | 5,661 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | 0.0 | 0 | 20 | 8 | 3 | w. | Do. |
| Trementina | San Miguel | 5,000 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.82 | ..... | 0.68 | 0.0 | 2 | 19 | 11 | 1 | e. | Miss Alice Blake. |
| Tucumcari(1) | Quay | 4,194 | 5 | 57.4 | ..... | 87 | 5 | 24 | 31 | 46 | 0.09 | ..... | 0.09 | 0.0 | 1 | 27 | 3 | 1 | sw. | John F. Seaman. |
| Valley | Union | 5,000 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.08 | ..... | 0.08 | 1.0 | 1 | 29 | 1 | 1 | s. | Mrs. M. Letitia Payne. |
| Vermejo Park | Colfax | 7,600 | 6 | 43.0 | ..... | 69 | 21† | 12 | 10 | 46 | 0.14 | ..... | 0.09 | 1.5 | 3 | 17 | 10 | 4 | w. | H. W. Adams. |
| Wagon Mound (near) | Mora | 6,300 | 1 | 44.8 | ..... | 78 | 5 | 10 | 10 | 55 | 0.25 | ..... | 0.25 | 2.0 | 2 | 20 | 7 | 4 | sw. | Guy L. Barnes |
| *Texas.* | | | | | | | | | | | | | | | | | | | | |
| Amarillo | Potter | 3,676 | 18 | 56.5 | +11.0 | 87 | 25 | 31 | 10 | 48 | 0.34 | − 0.31 | 0.21 | 0.0 | 3 | 24 | 7 | 0 | s. | U. S. Weather Bureau. |
| Arthur City | Lamar | 590 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.65 | − 3.12 | 0.30 | 0.0 | 3 | 19 | 0 | 12 | ..... | J. B. Wheeler. |
| Bonham | Fannin | 566 | 7 | 62.6ᵇ | ..... | 90ᵇ | 5 | 32ᵇ | 11 | 51ᵇ | 2.16 | ..... | 0.70 | 0.0 | 6 | 16 | 7 | 8 | s. | B. S. Lovelace. |
| Canadian | Hemphill | 2,339 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Canadian Academy. |
| Channing | Hartley | ..... | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C. F. Land & Inv. Co. |
| Childress | Childress | 1,869 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | W. E. Davis. |
| Chillicothe | Hardeman | 1,406 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.08 | ..... | 1.02 | 0.0 | 2 | 16 | 10 | 5 | sw. | A. B. Connor. |
| Clarendon | Donley | 2,719 | 5 | 61.0 | ..... | 91 | 5† | 29 | 11 | 54 | 0.60 | ..... | 0.40 | 0.0 | 2 | 21 | 8 | 2 | se. | J. B. McClelland. |
| Clarksville | Red River | 442 | 5 | 63.6 | ..... | 91 | 23 | 36 | 11 | 40 | 2.55 | ..... | 1.38 | 0.0 | 3 | 22 | 6 | 3 | ..... | J. W. O'Neill. |
| Claude | Armstrong | 3,397 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.41 | ..... | 0.41 | 0.0 | 1 | ..... | ..... | ..... | ..... | Ft. Worth & Denver Cy. Ry. |
| Dalhart | Dallam | 3,998 | 5 | 51.8 | ..... | 86 | 25 | 21 | 10 | 53 | 0.12 | ..... | 0.12 | 0.0 | 1 | 24 | 7 | 0 | w. | F. L. Kennard. |
| Denison | Grayson | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.86 | ..... | 0.76 | 0.0 | 3 | 19 | 2 | 10 | s. | J. B. Gibson. |
| Finley | Bowie | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.65 | ..... | 2.90 | 0.0 | 3 | 21 | 1 | 9 | s. | Mrs. M. C. Myers. |
| Henrietta | Clay | 915 | 15 | 63.5 | + 8.4 | 91 | 19† | 30 | 6 | 42 | 0.24 | − 1.83 | 0.24 | 0.0 | 1 | 18 | 0 | 13 | s. | C. K. Brown. |
| Hereford | Deaf Smith | 3,750 | 5 | 54.3 | ..... | 88 | 7 | 22 | 12 | 63 | 0.56 | ..... | 0.36 | T. | 2 | 16 | 11 | 4 | sw. | A. C. Elliott. |
| Lewis Ferry | Bowie | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.83 | ..... | 0.50 | 0.0 | 4 | 22 | 1 | 8 | ..... | P. G. Ruff. |

TABLE 1.—*Climatological data for March, 1910. District No. 7*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Texas*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Memphis | Hall | 2,067 | 5 | 63.0 | ..... | 92 | 5† | 32 | 10† | 44 | 0.83 | ..... | 0.73 | 0.0 | 2 | 19 | 6 | 6 | ..... | Ft. Worth & Denver Cy. Ry. |
| Miami | Roberts | 2,743 | 4 | 59.2 | ..... | 93 | 25 | 25 | 31 | 53 | 0.46 | ..... | 0.18 | 0.0 | 3 | 26 | 5 | 0 | s. | J. E. Kinney. |
| Mobeetie | Wheeler | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.25 | ..... | 0.25 | 0.0 | 1 | 25 | 2 | 4 | s. | R. A. Choate. |
| Nazareth | Castro | ..... | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Rev. P. A. Kaelin. |
| Ochiltree | Ochiltree | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.27 | ..... | 0.25 | 0.2 | 2 | ..... | ..... | ..... | ..... | S. J. Allen. |
| Pampa | Gray | 3 226 | 1 | 57.0 | ..... | 93 | 22 | 27 | 6 | 52 | 0.03 | ..... | 0.03 | 0.0 | 1 | ..... | ..... | ..... | ..... | B. E. Finley. |
| Paris | Lamar | 592 | 21 | 62.8 | + 9.8 | 90 | 23 | 36 | 1† | 41 | 2.35 | − 0.98 | 1.08 | 0.0 | 4 | 17 | 1 | 13 | s. | Robert A. Miller. |
| Plemons | Hutchinson | ..... | 3 | 54.3 | ..... | 91 | 25 | 20 | 31 | 57 | 0.01 | ..... | 0.01 | 0.0 | 1 | 24 | 4 | 3 | sw. | C. S. Solomon. |
| Quanah | Hardeman | 1,563 | 5 | 58.1 | ..... | 88 | 27 | 30 | 11 | 37 | 1.20 | ..... | 1.20 | 0.0 | 1 | 26 | 0 | 5 | s. | Wm. H. Crawford. |
| Ringo Crossing | Hopkins | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.29 | ..... | 1.40 | 0.0 | 3 | 22 | 1 | 8 | sw. | H. J. Palmer. |
| Romero | Hartley | ..... | ..... | 55.3 | ..... | 86 | 25 | 25 | 10† | 53 | 0.34 | ..... | 0.12 | 0.0 | 5 | 13 | 8 | 10 | s. | R. S. Chamberlain. |
| Sherman | Grayson | 745 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | R. A. Gibbs. |
| Sulphur Springs | Hopkins | 530 | 18 | 64.1 | + 5.8 | 90 | 22 | 36 | 11 | 36 | 1.95 | − 1.91 | 1.30 | 0.0 | 3 | 18 | 4 | 9 | sw. | O. M. Pate. |
| Texline | Dallam | 4,694 | 5 | ..... | ..... | ..... | ..... | 18 | 10 | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 25 | 6 | 0 | s. | Ft. Worth & Denver Cy. Ry. |
| Tulia | Swisher | 3,501 | 12 | 57.2 | ..... | 90 | 5† | 23 | 11 | 55 | 1.06 | ..... | 0.66 | T. | 4 | 12 | 18 | 1 | sw. | Lou Mulhall. |
| Wichita Falls | Wichita | 958 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | John Gould. |
| Winfield | Titus | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.15 | ..... | 1.06 | 0.0 | 3 | 19 | 4 | 8 | s. | J. C. Bostick. |
| *Kansas.* | | | | | | | | | | | | | | | | | | | | |
| Anthony | Harper | 1,329 | 13 | 58.4 | ..... | 92 | 25 | 27 | 1 | 49 | T. | − 1.11 | T. | 0.0 | 0 | 19 | 8 | 4 | sw. | R. H. Beebe. |
| Ashland | Clark | 1,951 | 22 | 57.5 | +11.0 | 94 | 25 | 24 | 7† | 57 | 0.04 | − 0.90 | 0.04 | 0.0 | 1 | 26 | 5 | 0 | s. | C. W. Carson. |
| Burlington | Coffey | 1,010 | 17 | 57.6 | +12.6 | 91 | 22 | 24 | 15 | 49 | 0.31 | − 1.78 | 0.17 | T. | 3 | 24 | 6 | 1 | s. | O. E. Sanford. |
| Chanute | Neosho | 940 | 6 | 58.8 | ..... | 94 | 23 | 28 | 12† | 46 | 0.55 | ..... | 0.30 | 0.0 | 2 | 21 | 8 | 2 | s. | Chas W. Brown. |
| Cimarron | Gray | 2,700 | 4 | 55.2 | ..... | 92 | 25 | 21 | 31 | 51 | T. | ..... | T. | 0.0 | 0 | 22 | 8 | 1 | sw. | Fred Mallonee. |
| Coldwater | Comanche | 2,090 | 13 | 57.8 | ..... | 93 | 25 | 22 | 10 | 47 | T. | − 1.20 | T. | 0.0 | 0 | 23 | 7 | 1 | s. | J. L. Stanley. |
| Columbus | Cherokee | 898 | 20 | 56.7 | +10.6 | 86 | 22† | 27 | 15 | 36 | 0.85 | − 2.62 | 0.52 | 0.0 | 3 | 23 | 6 | 2 | sw. | O. E. Skinner. |
| Coolidge | Hamilton | 3,346 | 13 | 52.3 | +11.4 | 89 | 22† | 12 | 10 | 61 | 0.00 | − 0.20 | 0.00 | 0.0 | 0 | 28 | 3 | 0 | nw. | W. R. Padley. |
| Cottonwood Falls | Chase | 1,234 | 6 | 56.8 | ..... | 92 | 25 | 22 | 7 | 53 | 0.02 | ..... | 0.02 | T. | 1 | 26 | 4 | 1 | sw. | E. B. Greene. |
| Council Grove | Morris | 1,191 | 1 | 55.8 | ..... | 93 | 25 | 24 | 7† | 51 | T. | ..... | T. | T. | 0 | 25 | 6 | 0 | s. | Jas. Sharpe. |
| Cunningham | Kingman | 1,680 | 26 | 58.1[b] | ..... | 92[b] | 25 | 23[b] | 10 | 54[b] | T. | − 1.16 | T. | 0.0 | 0 | 14[a] | 9[a] | 1[a] | sw. | W. H. Morton. |
| Dodge City | Ford | 2,513 | 36 | 55.8 | +14.1 | 90 | 25 | 24 | 31 | 46 | 0.01 | − 0.87 | 0.01 | 0.0 | 1 | 20 | 9 | 2 | s. | U. S. Weather Bureau. |
| El Dorado | Butler | 1,291 | 8 | 57.8 | ..... | 89 | 25 | 25 | 7 | 48 | 0.08 | ..... | 0.08 | 0.0 | 1 | 29 | 1 | 1 | s. | W. Y. Miller. |
| Ellinwood | Barton | 1,788 | 35 | 56.9 | +15.3 | 90 | 25 | 23 | 10 | 52 | T. | − 1.26 | T. | 0.0 | 0 | 20 | 11 | 0 | sw. | Martin Musil. |
| Emporia | Lyon | 1,138 | 29 | 58.4 | +16.2 | 89 | 22† | 24 | 15 | 48 | T. | − 1.94 | T. | T. | 0 | 24 | 6 | 1 | s. | W. H. Boyles. |
| Eureka | Greenwood | 1,093 | 14 | 57.7 | ..... | 90 | 25 | 22 | 15 | 50 | 0.21 | − 1.74 | 0.15 | T. | 2 | 22 | 7 | 2 | s. | T. C. Peffer. |
| Fall River | do | 925 | 14 | 58.0 | +12.0 | 91 | 25 | 20 | 7 | 52 | 0.37 | − 2.04 | 0.25 | T. | 3 | 26 | 4 | 1 | s. | J. McDaniel. |
| Fargo | Seward | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Frank Swink. |
| Fredonia | Wilson | 864 | 7 | 59.4 | ..... | 91 | 22 | 27 | 15 | 47 | 0.06 | ..... | 0.04 | T. | 2 | 23 | 6 | 2 | s. | B. W. Holmes. |
| Garden City | Finney | 2,836 | 21 | 54.2 | +10.9 | 89 | 23† | 20 | 31 | 57 | T. | − 0.84 | T. | 0.0 | 0 | 23 | 8 | 0 | s. | B. F. Stocks. |
| Great Bend | Barton | 1,850 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. A. Pritchard. |
| Greensburg | Kiowa | 2,235 | 3 | 55.2 | ..... | 90 | 25 | 23 | 10 | 49 | T. | ..... | T. | 0.0 | 0 | 29 | 0 | 2 | s. | C. C. Raymond. |
| Grenola | Elk | 1,116 | 23 | 57.2 | +11.4 | 91 | 25 | 24 | 7† | 49 | 0.15 | − 2.00 | 0.14 | 0.0 | 2 | 25 | 5 | 1 | s. | R. M. Lawyer. |
| Howard § | do | 1,112 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.19 | ..... | 0.19 | 0.0 | 1 | 24[a] | 4[a] | 2[a] | sw. | J. W. Eby. |
| Hugoton | Stevens | ..... | 6 | 55.6 | ..... | 100 | 23 | 17 | 10 | 61 | 0.00 | ..... | 0.00 | 0.0 | 0 | 28 | 2 | 1 | s. | E. M. Anderson. |
| Hutchinson | Reno | 1,535 | 20 | 56.4 | +11.4 | 93 | 25 | 23 | 10 | 50 | T. | − 1.27 | T. | 0.0 | 0 | 26 | 3 | 2 | sw. | E. S. Webster. |
| Independence | Montgomery | 816 | 37 | 59.5 | +13.0 | 92 | 25 | 26 | 7 | 47 | 0.44 | − 2.02 | 0.16 | 0.0 | 4 | 19 | 6 | 6 | s. | F. L. Kenoyer. |
| Iola | Allen | 984 | 4 | 57.4 | +15.0 | 89 | 22 | 26 | 15 | 45 | 0.32 | − 2.03 | 0.19 | 1.4 | 4 | 20 | 7 | 4 | s. | U. S. Weather Bureau. |
| Jetmore | Hodgeman | 2,268 | 9 | 55.5 | ..... | 89 | 23 | 22 | 31 | 55 | T. | ..... | T. | ..... | 0 | 17 | 14 | 0 | sw. | James Aiken. |
| Kingman | Kingman | 1,504 | 2 | 58.0 | ..... | 91 | 25 | 25 | 10 | 51 | T. | ..... | T. | 0.0 | 0 | 25 | 6 | 0 | sw. | B. B. Anawalt. |
| La Crosse | Rush | 2,061 | 8 | 57.4[c] | ..... | 92[c] | 25 | 17 | 31 | 56[c] | T. | ..... | T. | 0.0 | 0 | 28 | 3 | 0 | sw. | Rodney Torrey. |
| Lakin | Kearney | 2,993 | 20 | ..... | ..... | 89[p] | 25 | 24[p] | 11 | 57[p] | T. | − 0.61 | T. | 0.0 | 0 | 13[p] | 2[p] | 0[p] | s. | C. H. Longstreth. |
| Larned | Pawnee | 2,090 | 25 | 56.8 | ..... | 92 | 25 | 25 | 31 | 48 | T. | − 0.65 | T. | 0.0 | 0 | 28 | 3 | 0 | s. | H. H. Wolcott. |
| Lebo | Coffey | 1,138 | 24 | 56.6 | +13.2 | 90 | 22† | 23 | 15 | 49 | 0.06 | − 2.36 | 0.03 | T. | 2 | 25 | 5 | 1 | s. | J. J. Bowman. |
| Le Roy | do | 990 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.29 | ..... | 0.17 | ..... | 3 | 19 | 2 | 10 | s. | F. W. Schmitt. |
| Liberal | Seward | 2,843 | 3 | 57.2 | ..... | 92 | 25 | 22 | 10† | 50 | T. | ..... | T. | 0.0 | 0 | 21 | 5 | 5 | sw. | Dr. R. T. Nichols. |
| Mc Pherson | Mc Pherson | 1,495 | 21 | 57.2 | +13.7 | 93 | 25 | 22 | 10 | 48 | 0.00 | − 1.48 | 0.00 | 0.0 | 0 | 25 | 5 | 1 | sw. | Mrs. Nelia Poling. |
| Macksville | Stafford | 2,032 | 21 | 56.8 | +13.6 | 93 | 21 | 22 | 10 | 49 | 0.13 | − 0.63 | 0.13 | 0.0 | 1 | 20 | 9 | 2 | s. | Ed. F. Haberlein. |
| Madison | Greenwood | 1,074 | 9 | 56.2 | ..... | 92 | 22† | 20 | 15 | 53 | 0.25 | − 1.81 | 6.21 | 0.0 | 2 | 21 | 9 | 1 | se. | C. A. David. |
| Marion | Marion | 1,310 | 17 | 56.1 | +11.7 | 91 | 25 | 22 | 10 | 53 | T. | − 1.53 | T. | 0.0 | 0 | 18 | 12 | 1 | ..... | D. D. McIntosh. |
| Medicine Lodge | Barber | 1,475 | 17 | 56.8 | +10.2 | 93 | 25 | 22 | 10 | 56 | T. | − 1.05 | T. | 0.0 | 0 | 23 | 7 | 1 | s. | S. P. Garrison. |
| Medora | Reno | 1,484 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | M. L. Richenbrode. |
| Mount Hope | Sedgwick | 1,410 | 13 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | − 1.21 | 0.00 | 0.0 | 0 | 21 | 10 | 0 | s. | H. N. Renfrew. |
| Neosho Rapids | Lyon | 1,092 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | ..... | 0 | 25 | 1 | 5 | s. | Susan P. Whipple. |
| Ness City | Ness | 2,260 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. K. Barnd. |
| Newton | Harvey | 1,454 | 13 | 57.8 | +11.1 | 92 | 25 | 26 | 7 | 49 | 0.02 | − 1.45 | 0.02 | 0.0 | 1 | 22 | 7 | 2 | sw. | C. F. Walden. |
| Norwich | Kingman | 1,496 | 14 | 59.1 | +13.5 | 90 | 25 | 25 | 10 | 44 | T. | − 1.40 | T. | 0.0 | 0 | 15 | 16 | 0 | sw. | N. I. Farris. |
| Oswego | Labette | 899 | 16 | 59.0 | +11.4 | 90 | 22 | 27 | 15 | 42 | 0.81 | − 2.21 | 0.48 | 0.0 | 2 | 18 | 10 | 3 | sw. | Jos. M. Currigan. |
| Pratt | Pratt | 1,950 | 15 | ..... | ..... | 91[i] | 25 | 26[i] | 7 | 48[i] | T. | − 0.82 | T. | 0.0 | 0 | 18[i] | 2[i] | 2[i] | ..... | E. H. Ellsworth. |
| Rome | Sumner | 1,218 | 24 | 57.6 | +12.2 | 92 | 25 | 22 | 7 | 56 | T. | − 1.67 | T. | 0.0 | 0 | 24 | 6 | 1 | s. | D. M. Adams. |
| Sedan | Chautauqua | 834 | 25 | 60.2 | +13.3 | 93 | 25 | 26 | 7 | 47 | 0.23 | − 2.25 | 0.10 | 0.0 | 3 | 23 | 6 | 2 | s. | A. Y. Buckles. |
| Toronto | Woodson | 1,040 | 13 | 55.8 | +10.3 | 93 | 23 | ..... | ..... | ..... | 0.00 | − 2.11 | 0.00 | 0.0 | 0 | 28 | 0 | 3 | s. | M. A. Webb. |
| Ulysses | Grand | 3,027 | 19 | 52.8[a] | ..... | 88[f] | 22† | 19[a] | 10 | 52[b] | T. | − 0.52 | T. | 0.0 | 0 | 11[a] | 19[a] | 0[a] | sw. | T. W. Marshall. |
| Walnut | Crawford | 940 | 8 | 58.2 | ..... | 90 | 22 | 26 | 15 | 41 | 0.45 | ..... | 0.31 | T. | 2 | 26 | 4 | 1 | sw. | R. C. Harlan. |
| Wichita | Sedgwick | 1,377 | 23 | 58.1 | +14.0 | 89 | 25 | 29 | 10 | 42 | T. | − 2.25 | T. | 0.0 | 0 | 19 | 10 | 2 | s. | U. S. Weather Bureau. |
| Winfield | Cowley | 1,124 | 16 | 57.2 | +11.0 | 90 | 25 | 25 | 7 | 47 | 0.46 | − 1.18 | 0.46 | 0.0 | 1 | 24 | 4 | 3 | s. | M. B. Light. |
| Yates Center | Woodson | 1 068 | 31 | 58.4[b] | +13.8 | 94[b] | 22 | 25[b] | 7† | 56[b] | 0.04 | − 2.12 | 0.03 | T. | 2 | 23[b] | 5[b] | 1[b] | s. | J. W. Tipton. |
| *Oklahoma.* | | | | | | | | | | | | | | | | | | | | |
| Ada | Pontotoc | 1,001 | 3 | 63.1[e] | ..... | 89[d] | 23 | 27[f] | 11 | 43 | ..... | ..... | ..... | 0.0 | ..... | 19[f] | 0[f] | 6[f] | s. | Dr. J. P. McKinley. |
| Alva | Woods | 1,350 | 6 | 59.6[f] | ..... | 88[f] | 22† | 27[f] | 10 | 49[f] | T.[f] | ..... | T.[f] | 0.0[f] | 0[f] | 22[f] | 3[f] | 0[f] | s.[f] | L. W. Sandefur. |
| Apache | Caddo | 1,255 | 1 | 60.9 | ..... | 89 | 21† | 23 | 11 | 53 | 0.44 | ..... | 0.40 | 0.0 | 2 | 22 | 7 | 2 | sw. | G. D. Teeter. |
| Arapaho | Custer | 1,575 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Geo. E. Marsh. |
| Ardmore | Carter | 872 | 9 | 61.6 | + 5.3 | 90 | 22 | 29 | 11 | 50 | 0.30 | − 2.02 | 0.17 | 0.0 | 3 | 22 | 2 | 7 | s. | H. T. Nisbett. |
| Bartlesville | Washington | 687 | 4 | 61.4 | ..... | 91 | 22† | 29 | 1 | 42 | 0.43 | ..... | 0.40 | 0.0 | 2 | 22 | 5 | 4 | sw. | Dr. A. P. Owens. |
| Beaver | Beaver | 2,500 | 14 | 56.9 | + 9.1 | 95 | 25 | 30 | 31 | 56 | T. | − 0.64 | T. | 0.0 | 0 | 28 | 3 | 0 | s. | W. C. Frazer. |
| Blackburn | Pawnee | 800 | 6 | 61.4 | ..... | 92 | 22† | 25 | 11 | 53 | 0.21 | ..... | 0.18 | 0.0 | 2 | 28 | 2 | 1 | sw. | J. Landis. |
| Cache | Comanche | 1,350 | 5 | 57.9[c] | ..... | 87[c] | 5 | 19[c] | 11 | 58[c] | 0.79[c] | ..... | 0.79[c] | 0.0[c] | 1[c] | 20[b] | 6[b] | 3[b] | n.[c] | Frank Rush. |
| Calvin | Hughes | 713 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.61 | ..... | 0.40 | 0.0 | 3 | 21 | 0 | 10 | s. | Thomas Purcell. |
| Chandler | Lincoln | 865 | 6 | 60.9 | + 6.5 | 95 | 26 | 25 | 11 | 51 | 0.43 | − 1.16 | 0.22 | 0.0 | 3 | 21 | 5 | 6 | s. | Chas. L. Tuttle. |
| Chattanooga | Comanche | 1,150 | 5 | 59.2 | ..... | 90 | 5 | 30 | 3† | 60 | 0.80 | ..... | 0.73 | 0.0 | 2 | 19 | 9 | 3 | s. | Squire Humble. |
| Chickasha | Grady | 1,091 | 10 | 61.8[b] | ..... | 93 | 23 | 23[b] | 11 | 53[b] | 0.62 | ..... | 0.35 | 0.0 | 3 | 31 | 0 | 0 | s. | J. C. Good. |
| Cloud Chief | Washita | 1,400 | 10 | 61.5 | ..... | 95 | 5 | 23 | 11 | 55 | 0.48 | ..... | 0.42 | 0.0 | 2 | 21 | 8 | 2 | s. | J. P. Stutsman. |
| Dacoma | Woods | 1,337 | 13 | 59.4 | +10.5 | 94 | 25 | 27 | 7† | 50 | 0.00 | − 1.42 | 0.00 | 0.0 | 0 | 21 | 9 | 1 | sw. | R. H. Bruce. |
| Durant | Bryan | 643 | 10 | 61.1 | ..... | 88 | 22† | 31 | 1 | 47 | 1.34 | ..... | 0.79 | 0.0 | 2 | 19 | 1 | 11 | s. | Nelson Houk. |
| Eldorado | Jackson | 1,456 | 4 | 58.8 | ..... | 92 | 5 | 25 | 11 | 50 | 1.12 | ..... | 1.12 | 0.0 | 1 | 9 | 21 | 1 | ne. | T. W. Lanham. |
| El Reno | Canadian | 1,400 | 19 | 61.5 | +11.6 | 88 | 5† | 31 | 11 | 50 | 0.71 | − 1.30 | 0.46 | 0.0 | 3 | 20 | 10 | 1 | s. | Pearl Maddox. |
| Enid | Garfield | 1,269 | 11 | 59.4 | ..... | 92 | 25 | 30 | 7 | 50 | 0.00 | ..... | 0.00 | 0.0 | 0 | 23 | 7 | 1 | s. | Uri. B. Worcester. |
| Erick | Beckham | 2,058 | 7 | 60.6 | ..... | 93 | 5† | 25 | 11 | 54 | 0.34 | ..... | 0.30 | 0.0 | 2 | 17 | 10 | 4 | s. | A. W. Hanes. |
| Fairland | Ottawa | 839 | 11 | 60.4 | + 9.5 | 91 | 25 | 28 | 15 | 45 | 0.53 | − 2.78 | 0.39 | 0.0 | 4 | 18 | 6 | 7 | s. | C. W. Pryor. |

TABLE 1.—*Climatological data for March, 1910. District No. 7*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Oklahoma*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Fort Gibson | Muskogee | 556 | 6 | | | | | | | | 0.83 | | 0.77 | 0.0 | 2 | 22 | 3 | 6 | s. | John T. Welsh. |
| Frederick | Tillman | 1,203 | 7 | 60.4 | | 90 | 5 | 24 | 11 | 52 | 0.72 | | 0.68 | 0.0 | 4 | 16 | 10 | 5 | sw. | B. B. Bradley. |
| Gage | Ellis | 2,136 | 6 | 57.2 | | 93 | 5† | 22 | 31 | 54 | T. | | T. | 0.0 | 0 | 29 | 1 | 1 | s. | C. H. Holmes. |
| Goodwell | Texas | 3,300 | | 54.4 | | 89 | 25 | 21 | 10 | 51 | 0.00 | | 0.00 | 0.0 | 0 | 21 | 0 | 10 | w. | S. W. Black. |
| Guthrie | Logan | 1,000 | 8 | 62.2[b] | +11.3 | 91 | 22† | 26[b] | 11 | 50[b] | 0.54 | − 1.89 | 0.26 | 0.0 | 3 | | | | s. | G. W. Derrick. |
| Guymon | Texas | 3,133 | 1 | | | | | | | | | | | | | | | | | A. L. Mordt. |
| Harrington | Roger Mills | 2,200 | 7 | 61.4 | | 92 | 5 | 30 | 10 | 42 | 0.35 | | 0.35 | 0.0 | 1 | 24 | 3 | 4 | sw. | T. Compton. |
| Hartshorne | Pittsburg | 700 | 12 | 65.2 | +10.0 | 89 | 26 | 29 | 11 | 43 | 1.35 | − 2.07 | 0.70 | 0.0 | 3 | 23 | 6 | 2 | s. | Edward Glendenning. |
| Healdton | Carter | 900 | 17 | 60.7 | + 7.0 | 91 | 22 | 19 | 11 | 56 | 0.09 | − 2.52 | 0.09 | 0.0 | 1 | 21 | 8 | 2 | s. | C. H. Heald. |
| Helena | Alfalfa | 1,396 | 3 | 60.1 | | 92 | 5 | 28 | 7† | 52 | T. | | T. | 0.0 | 0 | 27 | 3 | 1 | s. | Frank Horsfall. |
| Hennessey | Kingfisher | 1,166 | 16 | 61.5[c] | +10.9 | 89[c] | 25† | 27[c] | 11 | 50[c] | 0.09[c] | − 1.83 | 0.06[c] | 0.0[c] | 2[c] | 11[f] | 14[f] | 0[f] | s.[f] | W. W. Parks. |
| Hobart | Kiowa | 1,396 | 7 | 61.0 | | 87 | 2† | 29 | 11 | 53 | 0.55 | | 0.50 | 0.0 | 2 | 16 | 12 | 3 | s. | Roy Benedict. |
| Holdenville | Hughes | 900 | 10 | 61.2 | + 5.4 | 90 | 23 | 27 | 11 | 48 | 0.20 | − 1.93 | 0.20 | 0.0 | 1 | 25 | 5 | 1 | s. | Miss M. Rutherford. |
| Hooker | Texas | 2,999 | 5 | 54.8 | | 91 | 25 | 21 | 10 | 57 | T. | | T. | 0.0 | 0 | 19 | 4 | 8 | s. | H. N. Kelley. |
| Hurley | Cimarron | 3,600 | 2 | 52.0 | | 83 | 7† | 18 | 10 | 51 | T. | | T. | 0.0 | 0 | 26 | 5 | 0 | sw. | C. W. Meyers. |
| Idabel | McCurtain | 474 | 3 | 59.8 | | 92 | 23 | 26 | 11 | 55 | 1.49 | | 0.98 | 0.0 | 3 | 23 | 0 | 8 | s. | M. L. Henderson. |
| Jefferson | Grant | 1,062 | 17 | 57.2 | + 7.3 | 93 | 25 | 25 | 7 | 52 | 0.00 | − 1.43 | 0.00 | 0.0 | 0 | 21 | 10 | 0 | s. | T. E. Beck. |
| Kenton | Cimarron | 4,000 | 11 | 52.8 | + 5.6 | 85 | 26 | 23 | 10 | 53 | 0.02 | − 0.68 | 0.02 | 0.0 | 1 | 24 | 6 | 1 | s. | L. A. Wikoff. |
| Kingfisher | Kingfisher | 1,046 | 13 | 61.0 | + 9.2 | 90 | 5 | 26 | 11 | 52 | 1.08 | − 1.63 | 0.74 | 0.0 | 3 | 18 | 10 | 3 | s. | J. C. Cross. |
| McAlester | Pittsburg | 608 | 18 | 64.6 | | 89 | 13† | 30 | 11 | 42 | 1.22 | − 2.46 | 0.67 | 0.0 | 2 | 24 | 2 | 5 | s. | Wm. Noble. |
| McComb | Pottawatomie | 1,200 | 16 | 63.4 | +11.3 | 90 | 21† | 33 | 12 | 46 | 0.13 | − 2.17 | 0.13 | 0.0 | 1 | 10 | 19 | 2 | s. | Jas. E. McNair. |
| Mangum | Greer | 1,385 | 18 | 57.0 | + 4.6 | 90 | 5 | 23 | 11 | 54 | 0.61 | − 0.32 | 0.33 | 0.0 | 3 | 21 | 5 | 5 | nw. | M. J. Northcuff. |
| Marlow | Stephens | 1,292 | 10 | 61.8 | + 8.0 | 89 | 22† | 28 | 1 | 45 | 0.47 | − 1.57 | 0.25 | 0.0 | 3 | 19 | 5 | 7 | se. | W. B. Anthony. |
| Meeker | Lincoln | 1,030 | 17 | 60.0 | + 8.9 | 89 | 26† | 23 | 11 | 49 | 0.31 | − 1.98 | 0.30 | 0.0 | 2 | 25 | 2 | 4 | s. | Dr. J. B. Baugh. |
| Muskogee | Muskogee | 614 | 12 | 62.1 | + 9.6 | 90 | 22 | 29 | 11 | 42 | 0.70 | − 2.53 | 0.70 | 0.0 | 1 | 22 | 3 | 6 | s. | Prof. E. N. Collette. |
| Mutual | Woodward | | 4 | 59.3 | | 95 | 25 | 29 | 11 | 53 | 0.00 | | 0.00 | 0.0 | 0 | 30 | 0 | 1 | s. | Thos. Martin. |
| Neola | Caddo | 1,500 | 5 | 60.2 | | 89 | 5 | 27 | 11 | 51 | 0.49 | | 0.41 | 0.0 | 3 | 19 | 11 | 1 | s. | R. N. Schooling. |
| Newkirk | Kay | 1,149 | 14 | 61.6[a] | +12.2 | 92 | 25 | 28[a] | 10 | 50 | 0.40 | − 1.70 | 0.40 | 0.0 | 1 | 24 | 4 | 3 | s. | P. H. Albright & Co. |
| Norman | Cleveland | 1,171 | 17 | | | | | | | | | | | | | | | | | Walter H. Meier. |
| Oakwood | Dewey | 1,854 | | 58.2 | | 90 | 4 | 25 | 11 | 47 | 0.21 | | 0.13 | 0.0 | 2 | 24 | 5 | 2 | s. | Dr. F. P. Osborn. |
| Okeene | Blaine | 1,194 | 7 | 60.2[a] | | 91[a] | 5 | 27[a] | 11 | 48[a] | 0.37[a] | | 0.29[a] | 0.0[a] | 2[a] | 27 | 3 | 1 | s.[a] | Dr. L. H. Murdoch. |
| Oklahoma | Oklahoma | 1,247 | 21 | 60.5 | +11.5 | 87 | 25 | 33 | 11 | 40 | 0.65 | − 1.73 | 0.35 | 0.0 | 3 | 16 | 13 | 2 | s. | U. S. Weather Bureau |
| Okmulgee | Okmulgee | 752 | 8 | 62.6 | | 90 | 23 | 30 | †1 | 52 | 0.20 | | 0.18 | 0.0 | 2 | 23 | 5 | 3 | s. | J. L. Maynard. |
| Pauls Valley | Garvin | 880 | 11 | | | | | | | | | | | | | | | | | A. M. Foss. |
| Pawhuska | Osage | 918 | 12 | 61.4 | +11.5 | 91 | 25 | 20 | 12 | 50 | 0.40 | − 2.87 | 0.20 | 0.0 | 3 | 21 | 7 | 3 | s. | R. C. Block. |
| Perry | Noble | 1,060 | 13 | 60.4 | + 9.7 | 92 | 25 | 30 | 31 | 48 | 0.18 | − 1.90 | 0.12 | 0.0 | 3 | 23 | 7 | 1 | s. | J. A. Douglas. |
| Ravia | Johnson | 796 | 9 | 63.4 | | 88 | 22† | 28 | 11 | 48 | 1.32 | | 1.10 | 0.0 | 2 | 20 | 2 | 9 | s. | R. G. Guptill. |
| Sac & Fox Agency | Lincoln | 900 | 18 | 62.2[a] | +11.5 | 99[a] | 26 | 33[a] | 7 | 42[a] | 0.33[a] | − 1.94 | 0.33[a] | 0.0[a] | 1[a] | 26[a] | 1[a] | 3[a] | sw.[a] | D. B. Taylor. |
| Shawnee | Pottawatomie | 1,041 | 10 | 61.2[a] | + 6.8 | 89[a] | 22† | 29[a] | 11 | 47[a] | 0.34[a] | − 1.67 | 0.19[a] | 0.0[a] | 4[a] | 18[a] | 4[a] | 8[a] | s.[a] | Neal R. Clark. |
| Snyder | Kiowa | 1,356 | 4 | 61.2 | | 89 | 5 | 25 | 11 | 50 | 0.54 | | 0.52 | 0.0 | 2 | 21 | 8 | 2 | se | Dr. W. G. Woodard. |
| Stillwater | Payne | 880 | 18 | 59.2 | + 8.8 | 90 | 25 | 26 | 11 | 50 | 0.59 | − 1.82 | 0.42 | 0.0 | 3 | 22 | 6 | 3 | s. | J. M. Speidel. |
| Supply | Woodward | 2,100 | 3 | 57.7 | | 92 | 5† | 23 | 31 | 52 | 0.00 | | 0.00 | 0.0 | 0 | 22 | 8 | 1 | s. | A. H. Trumbo. |
| Tulsa (1) | Tulsa | 700 | 22 | 61.3[a] | | 90 | 22† | 31[a] | 11 | 42 | 0.19 | − 2.53 | 0.12 | 0.0 | 2 | 19 | 5 | 7 | s. | William Hall. |
| Vinita | Craig | 608 | 7 | 59.2 | | 89 | 22† | 26 | 11† | 43 | 0.93 | | 0.70 | 0.0 | 3 | 19 | 6 | 6 | s. | C. E. Lahman. |
| Wagoner | Wagoner | 588 | 14 | 59.7 | + 7.6 | 89 | 22 | 28 | 11† | 48 | 0.83 | − 2.63 | 0.83 | 0.0 | 1 | 23 | 1 | 7 | s. | S. L. Hatfield. |
| Waukomis | Garfield | 1,258 | 14 | 59.6 | + 8.5 | 92 | 5 | 28 | 11 | 51 | 0.29 | − 1.53 | 0.18 | 0.0 | 3 | 25 | 4 | 2 | sw. | R. C. Shades. |
| Waurika | Jefferson | 988 | | 61.6 | | 90 | 24† | 27 | 11 | 49 | 0.36 | | 0.17 | 0.0 | 4 | 22 | 6 | 3 | sw. | B. A. Swindler. |
| Weatherford | Custer | 1,639 | 9 | 59.6 | | 90 | 5† | 29 | 11 | 52 | 0.56 | | 0.25 | 0.0 | 3 | 22 | 5 | 4 | s. | M. D. Reed. |
| Webbers Falls | Muskogee | 479 | 12 | 59.0 | + 4.6 | 91 | 23 | 26 | 12 | 56 | 1.20 | − 2.26 | 1.20 | 0.0 | 1 | 19 | 7 | 5 | se. | B. D. Boulineau. |
| Whiteagle | Kay | 945 | 5 | 60.6 | | 91 | 25 | 30 | 7† | 50 | 0.26 | | 0.15 | 0.0 | 2 | 21 | 9 | 1 | s. | J. M. Dankwardt. |
| Woodward | Woodward | 1,886 | 1 | 59.4 | | 92 | 5† | 23 | 31 | 53 | T. | | T. | 0.0 | 0 | 29 | 1 | 1 | s. | R. A. Boyle. |
| *Missouri.* | | | | | | | | | | | | | | | | | | | | |
| Belle | Maries | | 18 | 56.8[a] | +11.6 | 93[a] | 27 | 21[a] | 15 | 48[a] | 0.02[a] | − 3.54 | 0.02[a] | 0.2[a] | 1[a] | 11[a] | 18[a] | 1[a] | sw.[a] | A. J. Wofford. |
| Birchtree | Shannon | 1,200 | 17 | 58.2 | +10.4 | 88 | 23 | 22 | 15 | 38 | 3.17 | − 2.09 | 1.35 | 0.0 | 4 | 22 | 6 | 3 | sw. | V. H. Kirkendall. |
| Cape Girardeau | Cape Girardeau | 346 | 5 | | | | | | | | | | | | | | | | | D. L. Albert. |
| Caruthersville | Pemiscot | | 20 | 59.5 | + 8.6 | 93 | 23† | 26 | 16 | 44 | 1.66 | − 2.58 | 0.65 | 0.0 | 4 | 21 | 5 | 5 | s. | H. E. Averill. |
| Dean | McDonald | | 11 | 57.2 | + 7.0 | 88 | 25 | 22 | 11 | 46 | 1.36 | − 2.16 | 0.47 | 0.0 | 5 | 28 | 1 | 2 | sw. | H. E. Dean. |
| Doniphan | Ripley | 440 | 6 | 56.8 | | 88 | 23 | 23 | 15 | 42 | 1.18 | | 0.70 | 0.0 | 3 | 26 | 3 | 2 | s. | W. W. Martin. |
| Farmington | St. Francois | 889 | 3 | 56.9 | | 90 | 22† | 19 | 15 | 45 | 0.25 | | 0.25 | 0.0 | 1 | | | | | Miss Carrie Sneed. |
| Gano | Dent | | 7 | 59.1 | | 89 | 22† | 22 | 15 | 40 | 0.68 | | 0.25 | 1.0 | 5 | 23 | 5 | 3 | sw. | A. C. Leech. |
| Goodland | Iron | 900 | 5 | 54.1 | | 88 | 22 | 17 | 15 | 50 | 0.60 | | 0.27 | 0.0 | 3 | 27 | 2 | 2 | s. | F. M. Adams. |
| Greenville | Wayne | | 16 | 57.2[a] | | 90 | 23 | 22[a] | 15 | 48[a] | 1.64 | − 3.10 | 1.39 | T. | 2 | 22 | 8 | 1 | s. | A. G. Templeton. |
| Hollister | Taney | | | 57.2 | | 92 | 23 | 24 | 15 | 51 | 1.10 | | 0.80 | 0.0 | 2 | 27 | 0 | 4 | sw. | W. P. Chapman. |
| Ironton | Iron | 925 | 32 | 55.7 | +11.0 | 90 | 22† | 17 | 15 | 46 | 0.40 | − 4.00 | 0.15 | T. | 4 | 16 | 10 | 5 | s. | W. H. Delano. |
| Jackson | Cape Girardeau | 458 | 19 | 58.6 | +11.9 | 88 | 23† | 23 | 15 | 36 | 0.16 | − 4.91 | 0.10 | 0.0 | 2 | 17 | 10 | 4 | s. | L. M. Bean. |
| Joplin | Jasper | 979 | 32 | 62.4 | | 88 | 25 | 22 | 12 | 40 | 1.07 | − 1.70 | 0.70 | 0.0 | 3 | 24 | 5 | 2 | s. | Miss E. Russum. |
| Koshkonong | Oregon | 911 | 10 | 61.0 | | 89 | 23 | 27 | 15† | 33 | 0.98 | | 0.43 | 0.0 | 4 | 21 | 7 | 3 | sw. | J. W. Hitt. |
| Lamar | Barton | 964 | 30 | 57.6 | +11.4 | 89 | 22 | 29 | 12† | 42 | 1.00 | − 1.90 | 0.63 | T. | 4 | 21 | 6 | 4 | sw. | E. H. Adams. |
| Marble Hill | Bollinger | 420 | 19 | 57.6 | +10.3 | 88 | 24 | 22 | 11 | 45 | 0.90 | − 4.18 | 0.90 | 0.0 | 1 | 15 | 13 | 3 | nw. | A. F. Hendricks. |
| Mountaingrove | Wright | 1,490 | 11 | 56.5 | | 84 | 23 | 22 | 15 | 38 | 1.79 | − 3.12 | 0.83 | 0.5 | 4 | 23 | 6 | 2 | sw. | Mo. Fruit Exp. Station. |
| Mount Vernon | Lawrence | 1,480 | 34 | | | | | | | | | | | | | | | | | Dr. O. H. Brown. |
| Neosho | Newton | 1,023 | 27 | 58.2 | +10.2 | 88 | 25 | 24 | 15 | 45 | 1.68 | − 1.73 | 1.29 | 0.0 | 6 | 26 | 3 | 2 | sw. | W. O. Buck. |
| New Madrid | New Madrid | 285 | 16 | | | | | | | | 1.93 | − 4.21 | 1.78 | 0.0 | 5 | 16 | 4 | 11 | s. | Miss Josie Smith. |
| Oakfield | Franklin | 793 | 18 | 58.4 | +13.0 | 90 | 22 | 24 | 15 | 38 | 0.22 | − 3.74 | 0.13 | T. | 2 | 19 | 11 | 1 | sw. | E. E. Stines. |
| Olden | Howell | 1,246 | 20 | 57.8 | +10.0 | 86 | 22† | 25 | 15 | 53 | 2.01 | − 3.29 | 1.48 | 0.0 | 2 | 23 | 7 | 1 | sw. | J. D. Evans. |
| Perryville | Perry | 582 | 1 | 55.2 | | 89 | 24 | 16 | 15 | 44 | 0.00 | | 0.00 | 0.0 | 0 | 20 | 0 | 11 | s. | Superintendent of Schools. |
| Rolla | Phelps | 1,092 | 29 | 58.1 | | 87 | 22 | 22 | 15 | 39 | 0.30 | − 3.38 | 0.12 | 0.5 | 4 | 24 | 5 | 2 | sw. | Prof. P. J. Wilkins. |
| Sikeston | Scott | 328 | 15 | 58.4 | + 9.3 | 89 | 23 | 25 | 15 | 35 | 2.70 | − 2.82 | 2.25 | 0.0 | 3 | 19 | 6 | 6 | sw. | A. A. Harrison. |
| Springfield | Greene | 1,350 | 22 | 57.6 | +14.1 | 85 | 23 | 28 | 15 | 31 | 1.60 | − 2.47 | 0.82 | 1.6 | 4 | 23 | 5 | 3 | s. | U. S. Weather Bureau. |
| Steelville | Crawford | 746 | 14 | 54.0[a] | | 84[a] | 5 | 16[a] | 15 | 55[a] | 0.15 | − 2.27 | 0.09 | T. | 2 | 18[f] | 3[f] | 3[f] | sw.[f] | Edwin Pumphrey. |
| Willowsprings | Howell | 1,300 | 17 | | | | | | | | | | | | | | | | | John Lovewell. |
| *Kentucky.* | | | | | | | | | | | | | | | | | | | | |
| Blandville | Ballard | 445 | 30 | 56.8 | +11.0 | 84 | 27 | 26 | 15 | 31 | 2.40 | − 1.65 | 1.92 | 0.0 | 4 | 21 | 6 | 4 | sw. | E. W. Horr. |
| Lynnville | Graves | | 9 | 58.2[b] | | 87[b] | 24 | 26[b] | 15 | 43[b] | 1.19 | | 0.67 | 0.0 | 3 | 23[b] | 4[b] | 2[b] | sw. | Wm. Scherffius. |
| *Tennessee.* | | | | | | | | | | | | | | | | | | | | |
| Arlington | Shelby | | 28 | | | | | | | | | | | | | | | | | A. T. B. Etheridge. |
| Bolivar | Hardeman | 450 | 23 | 58.3 | + 8.2 | 88 | 24 | 24 | 16 | 41 | 0.22 | − 5.19 | 0.10 | 0.0 | 3 | 13 | 2 | 16 | s. | Miss M. A. Smith. |
| Brownsville | Haywood | 361 | 25 | 58.0 | | 85 | 23† | 28 | 15 | 35 | 1.14 | | 0.50 | 0.0 | 3 | 21 | 6 | 4 | s. | Miss Hattie N. Moses. |
| Covington | Tipton | 311 | 23 | 58.0 | + 8.1 | 85 | 23† | 30 | 15† | 32 | 0.94 | − 3.93 | 0.72 | 0.0 | 3 | 21 | 0 | 10 | s. | J. S. Ruffin. |
| Dyersburg | Dyer | 310 | 27 | 59.8 | +11.0 | 88 | 23 | 30 | 15 | 35 | 0.85 | − 3.95 | 0.60 | 0.0 | 2 | 20 | 1 | 10 | se. | Miss M. A. Sinclair. |
| Jackson | Madison | 450 | 17 | 61.0 | +10.1 | 92 | 24 | 25 | 16 | 43 | 1.15 | − 3.69 | 0.72 | 0.0 | 2 | 19 | 10 | 2 | w. | T. H. Hartmus. |
| Kenton | Obion | | 8 | 59.6 | | 89 | 23† | 26 | 15 | 34 | 0.82 | | 0.53 | 0.0 | 5 | 18 | 10 | 3 | s. | G. S. Martin. |
| Memphis | Shelby | 409 | 39 | 62.0 | + 9.9 | 86 | 24 | 34 | 15 | 30 | 1.14 | − 4.63 | 0.59 | 0.0 | 5 | 18 | 4 | 9 | sw. | U. S. Weather Bureau. |
| Milan | Gibson | 440 | 27 | 56.9 | | 88 | 27 | 27 | 15 | 41 | 0.15 | | 0.10 | 0.0 | 2 | 11 | 1 | 19 | s. | O. F. Cantwell. |
| Trenton | do | 345 | 27 | 57.2[a] | + 8.1 | 86[a] | 23† | 25[a] | 15† | 39[a] | 0.93 | − 4.38 | 0.48 | 0.0 | 3 | 26 | 1 | 4 | sw. | Prof. F. L. Dennison. |
| Union City | Obion | 360 | 12 | 59.0 | +10.4 | 89 | 23 | 27 | 15 | 38 | 1.04 | | 0.65 | 0.0 | 4 | 20 | 10 | 1 | s. | J. B. Kinsey. |

TABLE 1.—*Climatological data for March, 1910 District No. 7*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Arkansas.* | | | | | | | | | | | | | | | | | | | | |
| Alicia | Lawrence | | 6 | | | 89 | 23 | 29 | 11† | 53 | 0.95 | | 0.45 | 0.0 | 3 | | | | | McCullough & Guelck. |
| Amity | Clark | 250 | 18 | 61.0 | + 6.7 | 89 | 22 | 28 | 11 | 51 | 1.84 | − 4.08 | 0.77 | 0.0 | 4 | 20 | 7 | 4 | sw. | Prof. S. M. Samson. |
| Arkadelphia (near) | do | 250 | 3 | 62.6 | | 87 | 23 | 32 | 11† | 43 | 1.36 | | 1.02 | 0.0 | 4 | 22 | 2 | 7 | sw. | J. A. Ross. |
| Arkansas City | Desha | 145 | 27 | | | | | | | | 1.16 | − 4.44 | 0.60 | 0.0 | 5 | | | | | W. C. Blundell. |
| Batesville (2) | Independence | 271 | 6 | | | | | | | | 1.27 | | 1.12 | 0.0 | 5 | | | | | Miss Lelia I. Teter. |
| Bee Branch | Van Buren | | 18 | 60.9 | + 8.7 | 89 | 23 | 25 | 15 | 50 | 0.30 | − 4.67 | 0.30 | 0.0 | 1 | 22 | 6 | 3 | | J. E. Scanlon. |
| Benton | Saline | 283 | 3 | 61.8 | | 88 | 23 | 32 | 15 | 39 | 1.46 | | 0.85 | 0.0 | 3 | 22 | 3 | 6 | sw. | J. E. Evans. |
| Bentonville | Benton | 1,303 | 5 | 58.6 | +11.3 | 86 | 22 | 29 | 15 | 36 | 1.86 | − 1.96 | 1.67 | 0.0 | 5 | 20 | 6 | 5 | s. | U. S. Weather Bureau. |
| Bergman | Boone | 1,324 | 14 | 55.3 | + 6.9 | 84 | 23 | 22 | 2† | 51 | 1.51 | − 1.85 | 0.48 | 0.0 | 5 | 25 | 3 | 3 | nw. | John T. Maxey. |
| Black Rock | Lawrence | | 6 | | | | | | | | 1.07 | | 0.92 | 0.0 | 4 | | | | | S. J. Howe. |
| Brinkley | Monroe | 226 | 24 | 60.0 | + 6.8 | 90 | 23 | 29 | 16† | 44 | 1.13 | − 4.73 | 0.83 | 0.0 | 3 | | | | | H. L. D. Whitson. |
| Calico Rock | Izard | 361 | 6 | | | | | | | | 0.84 | | 0.74 | 0.0 | 2 | | | | | W. H. Stoner. |
| Camden | Ouachita | 158 | 25 | 61.8 | +10.0 | 89 | 23 | 31 | 11† | 46 | 1.20 | − 4.47 | 0.68 | 0.0 | 3 | 22 | 1 | 8 | sw. | R. H. Quarterman. |
| Centerpoint | Howard | | 10 | 62.3 | | 92 | 23 | 31 | 11 | 48 | 2.05 | | 1.15 | 0.0 | 3 | 20 | 3 | 8 | sw. | J. M. Huddleston. |
| Clarendon | Monroe | 171 | 6 | | | | | | | | 1.40 | | 0.81 | 0.0 | 3 | | | | | Mrs. B. E. Bishop. |
| Conway | Faulkner | 309 | 27 | 60.7 | + 8.5 | 89 | 23 | 32 | 11† | 45 | 0.44 | − 4.36 | 0.43 | 0.0 | 2 | 18 | 8 | 5 | se. | G. H. Burr. |
| Corning | Clay | 293 | 18 | 60.4 | +11.5 | 90 | 23 | 28 | 15 | 37 | 1.82 | − 3.36 | 1.20 | 0.0 | 4 | 14 | 11 | 6 | s. | Jacob Brobst. |
| Dardanelle | Yell | 330 | 24 | 60.4 | | 89 | 24 | 32 | 11† | 44 | 0.92 | − 3.95 | 0.83 | 0.0 | 3 | | | | | A. Bernard. |
| Dennard | Van Buren | | | | | | | | | | | | | | | | | | | Fred B. Brown. |
| Dodd City | Marion | 1,175 | 29 | 58.1[e] | + 9.0 | 88[e] | 22† | 25[e] | 11 | 49[e] | 1.02 | − 3.32 | 0.90 | 0.0 | 3 | | | | | Neal Dodd. |
| Dutton | Madison | | 9 | | | | | | | | | | | | | | | | | Edward Mize. |
| Earl | Crittenden | | 4 | | | 90 | 23† | 34 | 1 | 40 | 1.43 | | 0.86 | 0.0 | 3 | | | | | W. J. Moss. |
| Eldorado | Union | 265 | 6 | 60.6 | | 90 | 23 | 33 | 16 | 42 | 2.66 | | 1.64 | 0.0 | 4 | | | | | Fred A. Babb. |
| England | Lonoke | | 4 | 61.3 | | 87 | 22† | 29 | 16 | 41 | 1.00 | | 1.00 | 0.0 | 1 | | | | | J. C. Chenault. |
| Eureka Springs | Carroll | | 9 | 61.0 | | 92 | 25 | 25 | 7† | 44 | 1.55 | | 1.10 | 0.0 | 2 | 21 | 7 | 3 | sw. | S. H. Britts. |
| Fayetteville | Washington | 1,451 | 21 | 60.0 | +11.4 | 85 | 22† | 28 | 11† | 37 | 1.57 | − 2.70 | 1.27 | 0.0 | 4 | 17 | 9 | 5 | sw. | University of Arkansas. |
| Fort Smith | Sebastian | 481 | 28 | 61.9 | +10.6 | 87 | 22 | 36 | 11 | 41 | 0.87 | − 2.75 | 0.54 | 0.0 | 7 | 16 | 10 | 5 | e. | U. S. Weather Bureau. |
| Fulton | Hempsted | 264 | 6 | | | | | | | | 2.40 | | 1.30 | 0.0 | 4 | | | | | B. C. Logan. |
| Hardy | Sharp | 643 | 12 | 60.8 | | 90 | 23 | 28 | 11† | 40 | 1.01 | − 3.94 | 0.51 | 0.0 | 3 | 18 | 8 | 5 | sw. | C. A. Caywood. |
| Helena (2) | Phillips | 182 | 9 | 60.8 | + 7.3 | 90 | 24† | 28 | 16 | 47 | 1.24 | − 5.07 | 0.74 | 0.0 | 5 | | | | | B. F. Modisett. |
| Hot Springs | Garland | 600 | 4 | 58.2 | | 86 | 22† | 27 | 11 | 50 | 1.59 | | 1.01 | T. | 4 | 29 | 1 | 1 | w. | Hot Springs Water Co. |
| Huttig | Union | 85 | 3 | 63.0 | | 90 | 23 | 30 | 11† | 44 | 0.91 | | 0.43 | 0.0 | 3 | 16 | 11 | 4 | | C. A. Berry. |
| Jonesboro | Craighead | 345 | 15 | 60.2 | + 8.1 | 91 | 23 | 25 | 1 | 42 | 1.60 | − 3.42 | 0.90 | 0.0 | 4 | 19 | 10 | 2 | s. | Benedictine Sisters. |
| Junction | Union | | 17 | 62.2 | + 5.3 | 90 | 23 | 29 | 16 | 41 | 1.72 | − 4.35 | 1.12 | 0.0 | 2 | 23 | 3 | 5 | sw. | J. A. Lowderback. |
| Lake Farm | Jefferson | 195 | 3 | 59.8 | | 88 | 23 | 26 | 16 | 45 | 1.31 | | 0.50 | 0.0 | 4 | 24 | 4 | 3 | s. | R. H. Gillespie. |
| Lewisville | Lafayette | 262 | 7 | 62.8[a] | | 91[a] | 23 | 33[a] | 11 | 44[a] | 1.61 | | 0.45 | 0.0 | 5 | | | | | F. W. Youmans. |
| Little Rock | Pulaski | 357 | 31 | 62.3 | + 9.6 | 87 | 23 | 37 | 10 | 38 | 0.87 | − 4.07 | 0.70 | 0.0 | 4 | 19 | 7 | 5 | sw. | U. S. Weather Bureau. |
| Lutherville | Johnson | 775 | 13 | 59.6 | + 6.3 | 87 | 23 | 28 | 15 | 40 | 0.74 | | 0.63 | 0.0 | 2 | 22 | 4 | 5 | sw. | Herman Hentschel. |
| McNeil | Columbia | 321 | 3 | | | | | | | | | | | | | | | | | L. A. Smith. |
| Malvern | Hot Spring | 277 | 23 | 58.8 | + 4.7 | 86 | 23† | 30 | 11† | 52 | 1.15 | − 4.00 | 0.65 | 0.0 | 3 | | | | | Miss L. C. Smith. |
| Mammoth Spring | Fulton | | 6 | 58.0[a] | | 91[a] | 23 | 26[a] | 15 | 48[a] | 1.00 | | 0.30 | 0.0 | 6 | 11 | 15 | 5 | | F. Wallick. |
| Marked Tree | Poinsett | | 6 | | | | | | | | 1.11 | | 0.75 | 0.0 | 3 | | | | | L. Smith. |
| Mena | Polk | 1,100 | 24 | | | | | | | | | | | | | | | | | D. H. Hopkins. |
| Mossville | Newton | | 17 | 58.1 | + 9.9 | 81 | 23 | 24 | 15 | 40 | 0.60 | − 6.12 | 0.60 | 0.0 | 2 | 22 | 7 | 2 | s. | Theo. Ober. |
| Mount Nebo | Yell | 1,750 | 20 | 61.6 | +12.6 | 88 | 22 | 30 | 12 | 39 | 0.40 | − 5.05 | 0.40 | 0.0 | 1 | 20 | 5 | 6 | s. | T. G. Church. |
| Newport (1) | Jackson | 231 | 26 | 61.0 | +10.7 | 90 | 23 | 30 | 11† | 44 | 1.10 | − 3.82 | 0.68 | 0.0 | 3 | | | | | L. R. Cobb. |
| Ozark | Franklin | 377 | 19 | 62.6 | + 9.4 | 91 | 21 | 33 | 11 | 37 | 0.43 | − 4.63 | 0.31 | 0.0 | 2 | 23 | 6 | 2 | e. | R. M. Adams. |
| Pine Bluff | Jefferson | 215 | 22 | 60.8 | + 6.3 | 91 | 23 | 34 | 11 | 42 | 0.74 | − 4.90 | 0.44 | 0.0 | 3 | | | | | J. M. Hudson. |
| Pocahontas | Randolph | | 18 | 60.8[b] | +11.4 | 91[a] | 23 | 29[c] | 15 | 41[c] | 1.39 | − 3.50 | 1.12 | 0.0 | 2 | 23 | 4 | 4 | | Benedictine Sisters. |
| Pond | Benton | 1,250 | 13 | 58.6 | | 87 | 22† | 23 | 11 | 45 | 1.94 | − 1.09 | 1.85 | 0.0 | 5 | 14 | 14 | 3 | sw. | A. F. Stevens. |
| Portland | Ashley | 122 | 1 | 63.1 | | 91 | 23 | 29 | 17 | 49 | 3.05 | | 2.02 | 0.0 | 2 | | | | | T. A. Corson. |
| Prescott | Nevada | 327 | 22 | 60.5 | + 4.9 | 91 | 23 | 31 | 11† | 49 | 1.93 | − 2.14 | 0.80 | 0.0 | 4 | | | | | A. M. Ellsworth. |
| Rogers | Benton | 1,385 | 19 | 59.0 | +11.3 | 87 | 22 | 26 | 11 | 41 | 1.73 | − 2.09 | 1.45 | 0.0 | 4 | 19 | 8 | 4 | s. | Carl A. Stark. |
| Spielerville | Logan | 1,050 | 13 | 62.3 | + 8.5 | 90 | 23 | 36 | 11† | 37 | 0.93 | − 3.39 | 0.91 | 0.0 | 3 | 18 | 4 | 9 | sw. | New Subiaco Abbey. |
| Springbank | Miller | 182 | 3 | | | | | | | | 2.05 | | 0.75 | 0.0 | 5 | | | | | G. Field. |
| Stuttgart | Arkansas | 495 | 23 | 60.4 | + 7.0 | 87 | 23 | 32 | 15 | 42 | 0.93 | − 5.03 | 0.43 | 0.0 | 4 | 23 | 6 | 2 | sw. | H. A. Buerkle. |
| Texarkana | Miller | 332 | 26 | 62.0 | + 5.8 | 89 | 23 | 36 | 11 | 39 | 2.74 | − 1.13 | 1.90 | 0.0 | 3 | | | | | F. F. Quinn. |
| Warren | Bradley | 304 | 15 | 61.6 | + 6.2 | 88 | 23† | 29 | 16 | 43 | 2.02 | − 4.30 | 1.20 | 0.0 | 2 | | | | | W. J. Savage. |
| Whitecliffe | Little River | 206 | 6 | | | | | | | | 2.64 | | 1.83 | 0.0 | 3 | | | | | John E. Payton. |
| Wiggs | Garland | | 17 | 61.2 | + 6.5 | 88 | 23 | 27 | 11 | 51 | 1.74 | − 4.20 | 0.94 | 0.0 | 4 | 22 | 7 | 2 | sw. | S. D. Jester. |
| Wynne | Cross | | 2 | 59.5 | | 88 | 23† | 29 | 11† | 48 | 2.54 | | 1.94 | 0.0 | 4 | | | | | R. R. Poole. |
| *Mississippi.* | | | | | | | | | | | | | | | | | | | | |
| Anguilla | Sharkey | 107 | 2 | 63.2 | | 87 | 23 | 28 | 16 | 40 | 0.45 | | 0.45 | 0.0 | 1 | 17 | 10 | 4 | sw. | E. W. Cook. |
| Austin | Tunica | 200 | 14 | 61.0 | + 5.6 | 88 | 23† | 28 | 16 | 44 | 1.17 | − 4.61 | 0.59 | 0.0 | 5 | 23 | 7 | 1 | s. | H. J. Irvine. |
| Batesville | Panola | 230 | 22 | 60.0 | + 6.5 | 91 | 23 | 26 | 16 | 48 | 0.60 | − 5.45 | 0.40 | 0.0 | 2 | 24 | 0 | 7 | e. | J. M. Cox. |
| Byhalia | Marshall | 390 | 1 | | | | | | | | 0.34 | | 0.21 | 0.0 | 3 | 19 | 10 | 2 | sw. | Tallahatchie Drng. Com. |
| Canton | Madison | 228 | 20 | 63.4 | + 4.7 | 89 | 23 | 28 | 16 | 39 | 0.56 | − 5.26 | 0.37 | 0.0 | 2 | 19 | 8 | 4 | | Dr. G. W. Smith-Vaniz. |
| Clarksdale | Coahoma | 177 | 3 | | | | | | | | | | | | | | | | | J. F. Durham. |
| Coffeeville | Yalobusha | 241 | 1 | | | | | | | | 0.53 | | 0.34 | 0.0 | 4 | 19 | 9 | 3 | s. | Tallahatchie Drng. Com. |
| Corinth | Alcorn | 470 | 22 | 58.5 | + 5.9 | 90 | 24 | 25 | 16 | 43 | 0.24 | − 5.49 | 0.12 | 0.0 | 3 | 24 | 3 | 4 | se. | M. A. Candler. |
| Crenshaw | Panola | 187 | 1 | | | | | | | | 0.53 | | 0.24 | 0.0 | 7 | 18 | 9 | 4 | sw. | Tallahatchie Drng. Com. |
| Denmark | LaFayette | | 1 | | | | | | | | | | | | | | | | | Do. |
| Duck Hill | Montgomery | | 11 | 61.1[a] | + 4.1 | 90[a] | 24 | 25[a] | 16 | 46[a] | 0.30 | − 5.91 | 0.30 | 0.0 | 1 | 22 | 6 | 2 | s. | W. H. Eskridge. |
| Edwards | Hinds | 222 | 23 | 64.3 | + 5.4 | 89 | 23 | 27 | 16 | 38 | 0.84 | − 4.79 | 0.65 | 0.0 | 2 | 18 | 9 | 4 | s. | C. R. Knox. |
| Enid | Tallahatchie | | 1 | | | | | | | | | | | | | | | | | Tallahatchie Drng. Com. |
| Fayette | Jefferson | 270 | 9 | 63.2 | + 3.9 | 90 | 28 | 26 | 16 | 44 | 0.40 | − 5.60 | 0.40 | 0.0 | 1 | 20 | 9 | 2 | sw. | T. L. Darden. |
| Greenville | Washington | 126 | 23 | 62.8 | + 6.3 | 91 | 23 | 27 | 16 | 47 | 0.20 | − 5.57 | 0.10 | 0.0 | 3 | 23 | 1 | 7 | se. | F. L. Harbison. |
| Greenwood | Le Flore | 140 | 10 | 61.6 | + 2.4 | 89 | 24 | 27 | 16 | 45 | 0.68 | − 5.65 | 0.42 | 0.0 | 3 | 11 | 10 | 10 | se. | J. H. Stephen. |
| Grenada | Grenada | 194 | 1 | | | | | | | | 0.68 | | 0.68 | 0.0 | 1 | 26 | 3 | 2 | sw. | Tallahatchie Drng. Com. |
| Hernando | De Soto | 391 | 22 | 62.0 | + 8.0 | 89 | 24 | 31 | 15 | 38 | 0.78 | | 0.45 | 0.0 | 4 | 20 | 5 | 6 | sw. | Mrs. Sarah B. Jones. |
| Hickory Flat | Benton | 435 | 1 | | | | | | | | 0.15 | | 0.15 | 0.0 | 1 | 20 | 10 | 1 | w. | Tallahatchie Drng. Com. |
| Holly Springs | Marshall | 600 | 23 | 59.7 | + 7.6 | 87 | 24 | 29 | 15 | 37 | 0.42 | − 6.50 | 0.17 | 0.0 | 5 | 22 | 3 | 6 | se. | L. B. Mosby. |
| Kosciusko | Attala | 437 | 20 | 60.1 | + 3.7 | 88 | 28 | 25 | 16 | 42 | 0.32 | − 5.89 | 0.26 | 0.0 | 5 | 30 | 1 | 0 | se. | E. L. Lucas. |
| Lake Cormorant | De Soto | 206 | 1 | | | | | | | | 0.88 | | 0.40 | 0.0 | 4 | 22 | 9 | 0 | sw. | Tallahatchie Drng. Com. |
| Lula | Coahoma | 182 | 1 | | | | | | | | 1.19 | | 0.54 | 0.0 | 5 | 23 | 0 | 8 | | Do. |
| Malone | Marshall | | 1 | | | | | | | | | | | | | | | | | Do. |
| Marks | Quitman | 163 | 1 | | | | | | | | | | | | | | | | | Do. |
| Natchez | Adams | 206 | 22 | 66.2 | + 4.6 | 92 | 23 | 34 | 16 | 41 | 0.83 | − 5.26 | 0.83 | 0.0 | 1 | 19 | 2 | 10 | n. | J. C. Weir, jr. |
| New Albany | Union | 398 | 1 | | | | | | | | 0.47 | | 0.23 | 0.0 | 3 | 19 | 11 | 1 | sw. | Tallahatchie Drng. Com. |
| Pontotoc | Pontotoc | 475 | 21 | 61.8 | + 7.4 | 89 | 24 | 25 | 16 | 39 | 0.57 | − 5.44 | 0.30 | 0.0 | 2 | 16 | 13 | 2 | nw. | Dr. C. W. Bolton. |
| Port Gibson | Claiborne | 116 | 22 | 61.8 | + 2.1 | 88 | 24† | 26 | 16 | 45 | 3.27 | − 2.02 | 3.27 | 0.0 | 1 | 21 | 1 | 9 | e. | H. H. Crisler. |
| Ripley | Tippah | | 11 | | | | | | | | | | | | | | | | | S. W. Pegram. |
| Rosedale | Bolivar | 143 | 2 | 61.2 | | 88 | 23† | 28 | 16 | 41 | 1.00 | | 0.70 | 0.0 | 4 | 18 | 7 | 6 | sw. | W. A. Shelby. |
| Senatobia | Tate | 284 | 1 | | | | | | | | 0.68 | | 0.41 | 0.0 | 3 | 25 | 0 | 6 | n. | Tallahatchie Drng. Com |
| Shoccoe | Madison | | 7 | 62.5 | | 88 | 23† | 26[a] | 16 | 40[a] | 0.56 | | 0.41 | 0.0 | 2 | 24 | 4 | 3 | s. | J. C. Pitchford. |
| Suffolk | Franklin | | 9 | 64.5 | | 89 | 28 | 28 | 16 | 43 | 0.32 | | 0.32 | 0.0 | 1 | 22 | 4 | 5 | w. | Prof. Geo. H. Kent. |
| Swan Lake | Tallahatchie | 148 | 9 | | | | | | | | 0.20 | | 0.20 | 0.0 | 1 | | | | | B. F. Saunders. |

TABLE 1.—*Climatological data for March, 1910. District No. 7*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | Number of rainy days, .01 inch or more. | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | |
| *Mississippi—Cont'd.* | | | | | | | | | | | | | | | | | | |
| Tchula | Holmes | 130 | 5 | 63.5 | ..... | 90 | 23 | 27 | 16 | 45 | 1.05 | ..... | 0.75 | 0.0 | 2 | 20 | 7 | 4 | w. | Dr. M. P. Winkler. |
| University | LaFayette | 502 | 17 | 62.0 | + 7.7 | 88 | 24 | 28 | 16 | 40 | 0.44 | − 5.97 | 0.34 | 0.0 | 2 | 20 | 4 | 7 | n. | Prof. J. H. Dorroh. |
| Utica | Hinds | 287 | 6 | 63.5 | ..... | 89 | 23† | 28 | 16 | 44 | 2.09 | ..... | 1.89 | 0.0 | 2 | 17 | 13 | 1 | s. | Dr. J. B. Dudley. |
| Vicksburg | Warren | 239 | 39 | 65.6 | + 7.4 | 87 | 28 | 37 | 16 | 30 | 0.53 | − 5.72 | 0.53 | 0.0 | 1 | 20 | 3 | 8 | s. | U. S. Weather Bureau. |
| Water Valley | Yalobusha | 300 | 21 | 61.6 | + 6.4 | 91 | 24 | 25 | 16 | 40 | 0.53 | − 5.98 | 0.38 | 0.0 | 2 | 24 | 6 | 1 | s. | Miss Loula Erikson. |
| Woodville | Wilkinson | 560 | 17 | 65.4 | + 3.8 | 88 | 23 | 33 | 16 | 38 | 0.20 | − 5.75 | 0.20 | 0.0 | 1 | 23 | 7 | 1 | se. | James E. Lee. |
| Yazoo City | Yazoo | 116 | 16 | 64.5[b] | + 5.4 | 89[e] | 23† | 30 | 16 | 44[e] | 0.26 | − 5.48 | 0.26 | 0.0 | 1 | 23 | 1 | 7 | se. | H. S. Orr. |
| *Louisiana.* | | | | | | | | | | | | | | | | | | | | |
| Abbeville | Vermilion | 18 | 22 | 66.0 | + 3.1 | 88 | 28 | 33 | 16 | 35 | 1.70 | − 2.02 | 1.47 | 0.0 | 6 | 22 | 5 | 4 | se. | Hon. C. J. Edwards. |
| Alexandria | Rapides | 77 | 19 | 63.2 | + 3.0 | 90 | 22† | 33 | 16 | 42 | 1.25 | − 4.01 | 1.10 | 0.0 | 3 | 20 | 3 | 8 | e. | Miss Nellie Graham. |
| Amite | Tangipahoa | 130 | 22 | 64.0 | + 1.9 | 88 | 24† | 29 | 16 | 41 | 0.10 | − 5.25 | 0.10 | 0.0 | 1 | 10 | 15 | 6 | s. | Miss Lula M. Wentz. |
| Baton Rouge | E. Baton Rouge | 35 | 22 | 66.4 | + 4.8 | 85 | 28 | 38 | 16 | 33 | 0.51 | − 4.71 | 0.51 | 0.0 | 1 | 22 | 1 | 8 | nw. | Elmo M. Bott. |
| Burnside | Ascension | 20 | 10 | 62.8[e] | − 0.9 | 86[e] | 24† | 28[e] | 12 | 50[e] | 0.83 | − 4.72 | 0.50 | 0.0 | 2 | ..... | ..... | ..... | ..... | C. S. McFarland. |
| Burrwood | Plaquemines | 1 | 20 | 64.4 | + 2.2 | 80 | 9 | 46 | 17 | 26 | 1.35 | − 2.09 | 1.00 | 0.0 | 2 | 17 | 4 | 10 | nw. | Graham Myers. |
| Calhoun | Ouachita | 180 | 17 | 62.1 | + 6.1 | 90 | 23 | 28 | 16 | 46 | 1.06 | − 4.27 | 0.75 | 0.0 | 6 | 20 | 2 | 9 | s. | N. L. Exp. Station. |
| Cameron | Cameron | 6 | 15 | 64.2 | + 1.6 | 79 | 15 | 44 | 12† | 33 | 0.54 | − 2.83 | 0.54 | 0.0 | 1 | 18 | 12 | 1 | se. | State Biologic Station. |
| Cheneyville | Rapides | 67 | 20 | 65.0 | + 3.9 | 89 | 26† | 34 | 16 | 40 | 1.32 | − 3.60 | 1.00 | 0.0 | 2 | 18 | 7 | 6 | e. | Walter I. Tanner. |
| Clinton | East Feliciana | 113 | 20 | 65.0 | + 2.8 | 89 | 23 | 31 | 16 | 41 | 0.56 | − 5.46 | 0.41 | 0.0 | 2 | 20 | 2 | 9 | n. | John A. White, Jr. |
| Collinston | Morehouse | 65 | 8 | 63.0[b] | ..... | 90[b] | 23 | 30[a] | 16 | 38[e] | 0.72 | ..... | 0.52 | 0.0 | 2 | 24 | 3 | 4 | ..... | W. A. Page. |
| Covington | St. Tammany | 39 | 17 | 65.0 | + 2.3 | 88 | 24 | 30 | 16 | 47 | 0.45 | − 4.91 | 0.45 | 0.0 | 1 | 17 | 4 | 10 | s. | C. Champagne. |
| Dodson | Winn | ..... | 1 | 63.4 | ..... | 89 | 22 | 30 | 16 | 42 | 2.59 | ..... | 1.75 | 0.0 | 3 | 23 | 1 | 7 | s. | J. P. Lucas. |
| Donaldsonville | Ascension | 33 | 20 | 67.0 | + 4.7 | 84[e] | 6† | 38 | 16 | 38[e] | 0.60 | − 4.11 | 0.45 | 0.0 | 2 | 24 | 4 | 3 | n. | John F. Park. |
| Farmerville | Union | 177 | 20 | 61.0[d] | + 4.3 | 88[d] | 21 | 29[e] | 15 | 46[f] | 0.78 | − 5.02 | 0.66 | 0.0 | 2 | 23 | 4 | 4 | s. | W. P. Chandler. |
| Ferriday | Concordia | ..... | 3 | 63.2 | ..... | 89 | 23† | 28 | 16 | 44 | 1.48 | ..... | 1.43 | 0.0 | 2 | 22 | 2 | 7 | e. | R. Z. Sciater. |
| Franklin | St. Mary | 10 | 18 | 66.0 | + 1.9 | 89 | 28 | 35 | 16 | 38 | 0.75 | − 2.90 | 0.58 | 0.0 | 2 | 23 | 3 | 5 | e. | Miss Josephine M. Bonney. |
| Grand Cane | De Soto | 302 | 4 | 63.5 | ..... | 91 | 23 | 33 | 12 | 46 | 1.35 | ..... | 0.91 | 0.0 | 3 | 22 | 3 | 6 | s. | J. J. Paxton. |
| Grand Coteau | St. Landry | 93 | 23 | 65.6 | + 3.0 | 87 | 24† | 33 | 16 | 39 | 0.20 | − 4.11 | 0.20 | 0.0 | 1 | 22 | 5 | 4 | sw. | St. Charles College. |
| Hammond | Tangipahoa | 44 | 15 | 64.6 | + 2.8 | 88 | 26 | 29 | 16 | 41 | 0.38 | − 5.20 | 0.38 | 0.0 | 1 | 27 | 3 | 1 | se. | C. C. Carr. |
| Houma | Terrebonne | ..... | 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. M. Haggerty. |
| Jennings | Calcasieu | 30 | 12 | 65.2 | + 2.3 | 86 | 22 | 38 | 16† | 40 | 0.82 | − 2.68 | 0.72 | 0.0 | 2 | 19 | 10 | 2 | se. | J. F. Buch. |
| Lafayette | Lafayette | 36 | 21 | 65.2[a] | + 2.9 | 93 | 4 | 33[b] | 16 | 43[b] | 1.47 | − 2.40 | 1.10 | 0.0 | 3 | 18 | 7 | 6 | n. | J. J. Davidson. |
| Lake Charles | Calcasieu | 22 | 22 | 65.9 | + 4.0 | 90 | 22† | 36 | 16 | 43 | 0.29 | − 3.60 | 0.39 | 0.0 | 1 | 25 | 1 | 5 | sw. | A. O. Boudreaux. |
| Lakeside | Cameron | ..... | 9 | 66.6 | ..... | 85 | 21 | 39 | 16 | 34 | 0.36 | ..... | 0.36 | 0.0 | 1 | 30 | 0 | 1 | se. | Miss L. T. Nunnemacher. |
| Lawrence | Plaquemines | 6 | 18 | 66.1 | + 3.0 | 88 | 23† | 39 | 16 | 35 | 2.11 | − 1.57 | 1.70 | 0.0 | 3 | 24 | 4 | 3 | se. | H. C. Warmoth. |
| Liberty Hill | Bienville | ..... | 23 | 65.0 | + 6.2 | 99 | 28 | 30 | 16 | 48 | 2.49 | − 3.07 | 0.75 | 0.0 | 4 | 19 | 5 | 7 | s. | Dr. E. A. Crawford. |
| Logansport | De Soto | 192 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.08 | ..... | 0.70 | 0.0 | 3 | 23 | 9 | 8 | s. | Mrs. Bettie M. Dennis. |
| Melville | St. Landry | 45 | 21 | 64.0 | + 2.3 | 90 | 23 | 28 | 16 | 46 | 0.20 | − 5.15 | 0.20 | 0.0 | 1 | 20 | 2 | 9 | n. | Chas. B. McNeill. |
| Minden | Webster | 194 | 18 | 60.8 | + 2.6 | 91 | 23 | 33 | 11† | 51 | 1.57 | − 2.82 | 0.77 | 0.0 | 4 | 21 | 5 | 5 | s. | Miss Ethel Fort. |
| Monroe | Ouachita | 82 | 22 | 64.3 | + 6.0 | 90 | 23 | 34 | 16 | 42 | 0.52 | − 4.87 | 0.28 | 0.0 | 4 | 26 | 0 | 5 | n. | Kenneth F. Stiles. |
| Morgan City | St. Mary | 14 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.68 | ..... | 0.36 | 0.0 | 2 | 25 | 4 | 2 | n. | Virgil E. Kinsey. |
| Newellton | Tensas | ..... | 3 | 63.8 | ..... | 87 | 23† | 28 | 17 | 44 | 0.93 | ..... | 0.93 | 0.0 | 1 | 22 | 8 | 1 | n. | John D. Fultz. |
| New Iberia | Iberia | 15 | 20 | 66.6[e] | + 2.8 | 83[e] | 23† | 39[e] | 16 | 28[e] | 1.95 | − 1.50 | 1.50 | 0.0 | 2 | 23 | 8 | 0 | s. | Mrs. Jno. A. Gebert. |
| New Orleans (1) | Orleans | 51 | 40 | 67.4 | + 5.4 | 84 | 23 | 42 | 16 | 25 | 3.15 | − 2.15 | 3.13 | 0.0 | 2 | 26 | 5 | 0 | w. | U. S. Weather Bureau. |
| New Orleans (2) | ....do | 18 | 21 | 66.3 | + 3.6 | 88 | 22† | 39 | 16† | 35 | 3.85 | − 0.79 | 3.40 | 0.0 | 2 | 10 | 13 | 8 | s. | Sugar Exp. Station. |
| Opelousas | St. Landry | 83 | 18 | 64.8 | + 1.9 | 89 | 22† | 31 | 16 | 39 | T. | − 5.19 | T. | 0.0 | 0 | 23 | 3 | 5 | s. | Andrew Moresi. |
| Plain Dealing | Bossier | 268 | 18 | 62.8 | + 4.7 | 91 | 24 | 32 | 11 | 46 | 1.94 | − 2.30 | 0.65 | 0.0 | 4 | 21 | 3 | 7 | sw. | Leon Sanders. |
| Rayne | Acadia | 44 | 18 | 65.6 | + 2.4 | 87 | 22† | 35 | 16 | 39 | 1.26 | − 2.76 | 0.95 | 0.0 | 2 | 15 | 1 | 15 | s. | A. P. McNeil. |
| Reserve | St. John Baptist | ..... | 8 | 62.1 | ..... | 88[a] | 4† | 34 | 16 | 44[a] | 1.19 | ..... | 1.19 | 0.0 | 1 | 16 | 14 | 1 | ..... | Leon Godchaux Co., Ltd. |
| Robeline | Natchitoches | 147 | 13 | 62.0 | + 1.7 | 90 | 23 | 31 | 11† | 49 | 1.52 | − 3.10 | 0.89 | 0.0 | 4 | 22 | 3 | 6 | s. | Miss Ruby McCook. |
| Ruston | Lincoln | 312 | 13 | 64.2[a] | + 4.3 | 91[e] | 23 | 33[a] | 16 | 49[a] | 2.00 | − 3.94 | 1.00 | 0.0 | 5 | 21 | 1 | 9 | n. | J. C. H. McKinney. |
| St. Francisville | West Feliciana | 115 | 6 | 65.3 | ..... | 88 | 23† | 36 | 16 | 40 | 0.97 | ..... | 0.97 | 0.0 | 1 | 21 | 4 | 6 | sw. | L. P. Kilbourne. |
| Schriever | Terrebonne | 17 | 17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Chas. V. Moore. |
| Shreveport | Caddo | 249 | 39 | 64.7 | + 5.5 | 88 | 23 | 39 | 11 | 50 | 2.84 | − 1.68 | 1.69 | 0.0 | 4 | 20 | 4 | 7 | se. | U. S. Weather Bureau. |
| Simmesport | Avoyelles | ..... | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.29 | ..... | 0.26 | 0.0 | 2 | 15 | 6 | 10 | s. | C. T. Leigh. |
| Southern Univ. Farm | Jefferson | ..... | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.80 | − 1.24 | 2.80 | 0.0 | 2 | 23 | 6 | 2 | se. | F. L. St. Martin. |
| Sugartown | Calcasieu | ..... | 17 | 65.0 | + 2.9 | 85 | 23 | 38 | 16 | 34 | 1.02 | − 3.85 | 1.02 | 0.0 | 1 | 14 | 16 | 1 | ..... | G. W. Richardson. |
| Tallulah | Madison | 91 | 2 | 62.0[e] | ..... | 90[e] | 25† | 24[e] | 16 | 52[e] | 0.34 | ..... | 0.34 | 0.0 | 1 | 17 | 13 | 1 | ..... | C. E. Speed. |

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
¶ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2—*Daily precipitation for March, 1910. District No. 7, Lower Mississippi Valley.*

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Colorado.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blaine | Cimarron | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | T. | | | T. |
| Buena Vista | Arkansas | | | | | | | | | .05 | | | | | | | | | | | | | | | | | | | * | .05 | | | 0.10 |
| Calhan | Big Sandy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.05 | | | 1.05 |
| Canon City | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .25 | | | 0.25 |
| Colorado Springs | Fountain | | | | | | | | | .02 | | | | | | | T. | | | | | | | | | | | | | .13 | | | 0.15 |
| Cripple Creek | Oil Creek | | | | | | | | | .12 | | | | | | | | | | | | | | | | | T. | | | .65 | | | 0.77 |
| Cuchara Camps | Cucharas | T. | | | | | | | | .24 | | | | | | .03 | | | | | | | | | | | .05 | | .08 | | | | 0.40 |
| Eads | Big Sandy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fairview | St. Charles | | | | | | | | | .31 | | | | | | | | | | | | | | | | | | | | 1.64 | | | 1.95 |
| Florence | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Garfield | Little Arkansas | | | | | | | | | | .11 | | | | | T. | .12 | | | | | | | | | | .22 | | .03 | .16 | | | 0.64 |
| Glen Eyrie | Fountain | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .18 | | | 0.18 |
| Hamps | Big Sandy | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | * | .50 | | 0.50 |
| Hermit Lake | Grape Creek | | | | | | | | | .20 | .64 | | | | | .50 | | | | | | | | | .14 | | | | | .89 | | | 2.37 |
| Hoehne (near) | Purgatoire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .30 | | | 0.30 |
| Holly | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Lake Moraine | Fountain | .01 | | | | | | | | .78 | .03 | | | | | .05 | .04 | | | | | | | | | | .02 | | | .81 | | | 1.74 |
| Lamar | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Las Animas | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | .30 | | | | 0.30 |
| La Veta Pass | Cucharas | | | | | | | | | * | .45 | | | | | T. | | | | | | | | | | | T. | | .80 | | | | 1.25 |
| Leadville | Arkansas | .03 | | | | | | | | .05 | .01 | | | | | T. | .18 | | | | | | | | | | .20 | T. | .05 | .52 | T. | | 1.04 |
| Limon (near) | Big Sandy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Marshall Pass | Arkansas | | | | | | | | | T. | | | | | | | T. | | | | | | | | | | T. | | .14 | .44 | | | 0.58 |
| North Lake | Purgatoire | | | | | | | | | * | .25 | | | | | * | .22 | | | | | | | | | | | | | .05 | | | 0.52 |
| Pueblo | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | | 0.05 |
| Rockyford (near) | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .35 | | | 0.35 |
| Saint Elmo | Chalk Creek | .13 | | | | | | | | | T. | | | | | | .36 | | | | | | | | | | .26 | | | .28 | | | 1.03 |
| Salida | Arkansas | | | | | | | | | | .40 | | | | | | T. | | | | | | | | | | .10 | | | .30 | | | 0.80 |
| Santa Clara | Cucharas | | | | | | | | | T. | .04 | | | | | T. | | | | | T. | | | | | | T. | | | .03 | .02 | | 0.09 |
| Sheridan Lake | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | T. |
| Stonewall | Purgatoire | | | | | | | | | .09 | .08 | | | | | T. | .02 | | | | | | | | | | T. | | | T. | | | 0.19 |
| Trinidad | do | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | .05 | | | 0.05 |
| Victor | Oil Creek | | | | | | | | .03 | | .04 | | | | | T. | T. | | T. | | | | | | | | T. | | | .60 | .20 | | 0.87 |
| Vilas | Cimarron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Westcliffe | Grape Creek | | | | | | | | | | .02 | | | | | | | | | | | | | | | | .03 | | | .53 | | | 0.58 |
| Winfield | Clear Creek | .02 | | | | | | | | .10 | T. | | | | | T. | T. | T. | | | | | | T. | | T. | .25 | T. | .04 | .25 | | | 0.66 |
| Wortman | Arkansas | T. | .30 | | | | | | | | | | | | | | .40 | T. | | | | | | | | | .20 | | .18 | .40 | | T. | 1.48 |
| *New Mexico.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abbott | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Albert | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Arch (near) | Red | | | | | | | | | | | | | | | | | | | .80 | | | | | | | | | | | | | 0.80 |
| Aurora | Canadian | | | | | | | | | .17 | | | | | | | | | | | | | | | | | | | | .12 | | | 0.29 |
| Bell Ranch | do | | | | | | | | | | | | | | | .09 | .09 | | | | | | | | | | | | | | .15 | | 0.33 |
| Black Lake | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .22 | | | 0.22 |
| Cabeza | do | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | | | T. |
| Campana | do | | | | | | | | | | | | | | | T. | .08 | | | | | | | | | | | | | | | | 0.08 |
| Chacon | do | | | | | | | | | | .27 | | | | | | | | | | | | | | | | | | | | T. | | 0.27 |
| Cimarron (near) | do | T. | | | | | | | | | .12 | | | | | T. | | | | | T. | | | | | | | | | T. | .02 | | 0.14 |
| Clayton | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clovis | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cuervo | Canadian | | | | | | | | | | | | | | | T. | .08 | | | | | | | | | | | | | | | | 0.08 |
| Dawson | do | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | | | | 0.10 |
| Dorsey (near) | do | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Elizabethtown | do | | | | | | | | | | .18 | | | | | | .04 | | | | | | | | | | | | | .15 | | | 0.37 |
| Folsom | Cimarron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Fort Union | Canadian | | | | | | | | | T. | | | | | | .12 | | | | | | | | | | | | | | .45 | | | 0.57 |
| Hayden | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Johnson's Park | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | T. | T. | | | T. |
| Lake Alice | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logan | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Los Alamos | do | | | | | | | | | | | | | | | .02 | | | | T. | | | | | | | | | | * | .27 | .07 | 0.36 |
| Lykins (near) | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maxwell (near) | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Melrose | Red | | | | | | | | | | | | | | | T. | .70 | | | | | | | | | | | | | | | | 0.70 |
| Miami Ranch | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Montoya | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nara Visa | do | | | | | | | | | | | | | | | .11 | | | | | | | | | | | | | | | | | 0.11 |
| Pasamonte | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Raton | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .15 | | 0.15 |
| Rociada | do | | | | | | | | | .23 | | | | | | .16 | | | | | | | | | | | | | | .21 | .05 | | 0.65 |
| Roy | do | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | T. | | | T. |
| San Jon | do | | | | | | | | | | | | | | | * | .20 | | | T. | | | | | | | | | | | | | 0.20 |
| Solano (1) | do | | | | | | | | | | | | | | | T. | | | | | .08 | | | | | | | | | * | .24 | | 0.32 |
| Springer | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Taylor | do | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | | | T. |
| Trementina | do | | | | | | | | | | | | | | | .14 | | | | | | | | | | | | | | | .68 | | 0.82 |
| Tucumcari (1) | do | | | | | | | | | | | | | | | .09 | | | | | | | | | | | | | | | | | 0.09 |
| Valley | Cimarron | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .08 | | | 0.08 |
| Vermejo Park | Canadian | | | | | | | | | .05 | .04 | | | | | T. | | | | | | | | | | | | | | .05 | | | 0.14 |
| Wagon Mound (near) | do | | | | | | | | | | T. | | | | | T. | | | | | | | | | | | | | | * | .25 | | 0.25 |
| *Texas.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amarillo | Canadian | | | | | | | | | | | | | | | .06 | .15 | T. | | T. | | | | | | T. | | | .13 | | | | 0.34 |
| Arthur City[1] | Red | | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | .25 | .10 | 0.65 |
| Bonham | do | | | | | | | | | | .50 | | | | | | | .10 | | .42 | | | | | | | | | | .70 | .40 | .04 | 2.16 |
| Canadian | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Channing[1] | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Childress | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chillicothe | do | | | | | | | | | | | | | | | | 1.02 | | | | | | | | | | | | | .06 | | | 1.08 |
| Clarendon | do | | | | | | | | | | | | | | | | .40 | | | T. | | | | | | | | | | .20 | | | 0.60 |
| Clarksville | do | | | | | | | | | | .72 | | | | | | | | | .45 | | | | | | | | | | | 1.38 | | 2.55 |
| Claude | do | | | | | | | | | | | | | | | .41 | | | | | | | | | | | | | | | | | 0.41 |
| Dalhart[1] | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .12 | | | 0.12 |
| Denison[1] | Red | | | | | | | | | | T. | | | | | | | .02 | T. | | .76 | T. | | | | | | | | T. | .08 | | 0.86 |
| Finley[1] | do | | | | | | | | | 1.30 | | | | | | | | | | | .45 | | | | | | | | | | | 2.90 | 4.65 |
| Henrietta[1] | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .24 | | | 0.24 |
| Hereford | do | | | | | | | | | | | | | | | T. | .36 | | | | | | | | | | | | .20 | | | | 0.56 |
| Lewis Ferry[1] | do | | | | | | | | | | .12 | | | | | | | | .01 | | .20 | | | | | | | | | | | .50 | 0.83 |
| Memphis | do | | | | | | | | | | | | | | | | .73 | | | T. | | | | | | | | | | .10 | | | 0.83 |
| Miami | Canadian | | | | | | | | | | | | | | | | .14 | | | | | | | | | | .18 | | | .14 | | | 0.46 |
| Mobeetie[1] | Red | | | | | | | | | | | | | | | | | .25 | | | | | | | | | | | | | | | 0.25 |
| Nazareth | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ochiltree | Canadian | | | | | | | | | | | | .02 | | .25 | | | | | | | | | | | | | | T. | | | | 0.27 |
| Pampa[1] | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | .03 | | | | 0.03 |
| Paris[1] | Red | | | | | | | | | 1.08 | | | | | | | | | | | .20 | | | | | | | | | .22 | .85 | | 2.35 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 7*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Texas*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plemons | Canadian | | | | | | | | | | | | | | | | T. | | | | | | | | | | .01 | | | | | | 0.01 |
| Quanah‖ | Red | | | | | | | | | | | | | | | | 1.20 | T. | | | | | | | | | | | | T. | | | 1.20 |
| Ringo Crossing‖ | do | | | | | | | | | | .75 | | | | | | | | | | .14 | | | | | | | | | | 1.40 | | 2.29 |
| Romero | Canadian | | | | | | | | | | | | | | | .10 | .10 | | | | | .01 | | | | | | | .01 | .12 | T. | | 0.34 |
| Sherman | Red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sulphur Springs‖ | do | | | | | | | | | | .40 | | | | | | | T. | | | .25 | | | | | | | | T. | | 1.30 | 1.95 |
| Texline‖ | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Tulia | Red | | | | | | | | | | T. | | | | | | .66 | | | .09 | | | | | | .25 | | | .06 | | | | 1.06 |
| Wichita Falls | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Winfield | do | | | | | | | | | .45 | | | | | | | | T. | T. | T. | | | | | | | | | | | 1.06 | T. | 1.51 |
| *Kansas.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anthony | Arkansas | | | | | | | | | T. | | | | | | | T. | | T. | | | | | | | | | | | T. | | | T. |
| Ashland | Cimarron | | | | | | | | | | | | | | | | | | .04 | | | | | | | | | | | | | | 0.04 |
| Burlington | Neosho | | .04 | | | | | | | .17 | | | | | | | | | | | | | | | | | | | | .10 | | | 0.31 |
| Chanute | do | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | .25 | | | 0.55 |
| Cimarron | Cimarron | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | T. |
| Coldwater | do | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | T. | | | T. |
| Columbus | Neosho | .05 | | | | | | | | .28 | | | | | | | | | | | | | | | | | | | | .52 | | | 0.85 |
| Coolidge | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Cottonwood Falls | Neosho | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .02 | | | 0.02 |
| Council Grove | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Cunningham | Arkansas | | | | | | | | | | | | | | | | | T. | T. | | | | | | | T. | | | | T. | | | T. |
| Dodge City | do | | | | | | | | | | | | | | | | | T. | T. | T. | | | | | | | .01 | | | | | | 0.01 |
| El Dorado | do | | | | | | | | | .08 | | | | | | | | | | | | | | | | | | | | T. | | | 0.08 |
| Ellinwood | do | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | T. |
| Emporia | Neosho | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Eureka | Verdigris | | | | | | | | .15 | | | | | | | | | | | | | | | | | | | | | .06 | | | 0.21 |
| Fall River | do | .02 | | | | | | | | .10 | | | | | | | | | | | T. | | | | | | | | | .25 | | | 0.37 |
| Fargo | Cimarron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fredonia | Virdigris | .02 | | | | | | | | .04 | | | | | | | | | | | | | | | | | | | | T. | | | 0.06 |
| Garden City | Arkansas | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | T. | | | T. |
| Great Bend‖ | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Greensburg | do | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | T. |
| Grenola | Verdigris | | | | | | | | | .01 | | | | | | | | | | | | | | | | | | | | .14 | | | 0.15 |
| Howard | do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .19 | | | 0.19 |
| Hugoton | Cimarron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Hutchinson | Arkansas | | | | | | | | | | | | | | | | T. | | | | | | | | | T. | | | | | | | T. |
| Independence | Verdigris | .16 | | | | | | | | .10 | | | | | | | | | | | .06 | | | | | | | | | .12 | | | 0.44 |
| Iola | Neosho | .07 | | | | | | | | .19 | | | | | | | .02 | | | | | | | | | | | | | .04 | | | 0.32 |
| Jetmore | Arkansas | | | | | | | | | | | | | | | | | T. | T. | | | | | | | | T. | | | | | | T. |
| Kingman | do | | | | | | | | | T. | | | | | | | | | T. | | | | | | | T. | | | | T. | | | T. |
| La Crosse | do | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | T. |
| Lakin | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Larned | do | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | T. |
| Lebo | Neosho | | | | | | | | | .03 | | | | | | | T. | | | | | | | | | | | | | .03 | | | 0.06 |
| Le Roy‖ | do | .05 | | | | | | | | | .17 | | | | | | | | | | | | | | | | | | | .07 | | | 0.29 |
| Liberal | Cimarron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| McPherson‖ | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Macksville‖ | do | | | | | | | | | | | | | | | | T. | T. | .13 | | | | | | | | | | | | | | 0.13 |
| Madison | Verdigris | | | | | | | | | .21 | | | | | | | | T. | | | | | | | | | | | | .04 | | | 0.25 |
| Marion | Neosho | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Medicine Lodge | Arkansas | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | T. | | | T. |
| Medora‖ | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mt. Hope | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Neosho Rapids‖ | Neosho | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | T. |
| Ness City | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Newton | do | | | | | | | | | .02 | | | | | | | | | | | | | | | | | | | | T. | | | 0.02 |
| Norwich | do | | | | | | | | | T. | | | | | | T. | | | T. | | | | | | | | T. | | | T. | | | T. |
| Oswego | Neosho | | | | | | | | | .33 | | | | | | | | | | | | | | | | | | | | .48 | | | 0.81 |
| Pratt | Arkansas | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Rome | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Sedan‖ | Verdigris | .10 | | | | | | | | .05 | | | | | | | | | | | | | | | | | | | | .08 | | | 0.23 |
| Toronto‖ | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Ulysses‖ | Cimarron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Walnut | Neosho | | | | | | | | | .31 | T. | | | | | | | | | | | | | | | | | | | .14 | | | 0.45 |
| Wichita | Arkansas | | | | | | | | | T. | | | | | | | T. | T. | | | | | | | | | | | | T. | | | T. |
| Winfield | do | | | | | | | | | | | | | | | | T. | | | .46 | | | | | | | | | | | | | 0.46 |
| Yates Center | Verdigris | | | | | | | | | .01 | | | | | | | | | | | | | | | | | | | | .03 | | | 0.04 |
| *Oklahoma.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ada | Canadian | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | .14 | | | |
| Alva | Arkansas | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | T. |
| Apache | Red | | | | | | | | | | | | | | | | .40 | T. | T. | .04 | | | | | | | | | | T. | | | 0.44 |
| Arapaho | Washita | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ardmore‖ | Red | | | | | | | | | | | | | | | | | T. | | | .10 | | | | | | | | | .03 | .17 | | 0.30 |
| Bartlesville | Arkansas | | | | | | | | | T. | | | | | | | | | | | .40 | | | | | | | | | .03 | | | 0.43 |
| Beaver | Canadian | | | | | | | | | | | | | | | | | | T. | | | | | | | | T. | | | | | | T. |
| Blackburn | Arkansas | | | | | | | | | | | | | | | | | | | .03 | | | | | | | | | | .18 | | | 0.21 |
| Cache | Red | | | | | | | | | | | | | | | | .79 | | | | | | | | | | | | | | | | 0.79 |
| Calvin | Canadian | | | | | | | | | | | | | | | | | | | | .18 | | | | | | | | | .03 | .40 | | 0.61 |
| Chandler‖ | do | | | | | | | | | | | | | | | | | .22 | | T. | .15 | | | | | | | .06 | | | | | 0.43 |
| Chattanooga | Red | | | | | | | | | | | | | | | | .73 | | | T. | | | | | | | | | | .07 | | | 0.80 |
| Chickasha | Washita | | | | | | | | | | | | | | | | .35 | | T. | .20 | | | | | | | | | | .07 | | | 0.62 |
| Cloud Chief | do | | | | | | | | | | | | | | | | .42 | | | .06 | | | | | | | | | | T. | | | 0.48 |
| Dacoma | Cimarron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Durant‖ | Red | | | | | | | | | | | | | | | | | T. | | | .79 | | | | | | | | | | .55 | | 1.34 |
| Eldorado | do | | | | | | | | | | | | | | | | 1.12 | | | | | | | | | | | | | T. | | | 1.12 |
| El Reno | Canadian | | | | | | | | | | | | | | | | .46 | | | .22 | | | | | | | | | | .03 | | | 0.71 |
| Enid | Cimarron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Erick | Red | | | | | | | | | | | | | | | | .30 | | T. | T. | | | | | | | | | | .04 | | | 0.34 |
| Fairland | Arkansas | .05 | | | | | | | | .05 | | | | | | | T. | | | | | | | | | | | | | .39 | .04 | | 0.53 |
| Fort Gibson | do | | | | | | | | | | T. | | | | | | | .06 | | | | | | | | | | | | | .77 | | 0.83 |
| Frederick | Red | | | | | | | | | | .01 | | | | | | .66 | .02 | | | | | | | | | | | | .03 | | | 0.72 |
| Gage | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Goodwell | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Guthrie | Cimarron | | | | | | | | | | | | | | | | .23 | | | .26 | | | | | | | | | | .05 | | | 0.54 |
| Guymon | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harrington | Red | | | | | | | | | | | | | | | | .35 | | | | | | | | | | | | | | | | 0.35 |
| Hartshorne | Canadian | | | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | .30 | .70 | | 1.35 |
| Healdton | Red | | | | | | | | | T. | | | | | | | T. | T. | T. | T. | | | | | | | | | | .09 | | | 0.09 |
| Helena | Cimarron | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | T. |
| Hennessey | do | | | | | | | | | | | | | .03 | | | | | | .06 | | | | | | | | | | | | | 0.09 |
| Hobart | Red | | | | | | | | | | | | | | | | .50 | | T. | .05 | | | | | | | | | | T. | | | 0.55 |
| Holdenville‖ | Canadian | | | | | | | | | | | | | | | | | T. | | | T. | | | | | | | | | | .20 | | 0.20 |
| Hooker | do | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | T. | | | T. |

TABLE 2.—*Daily precipitation for March, 1910. District No. 7*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Oklahoma*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | T. |
| Hurley | Canadian | | | | | | | | | | | | | | | | | | | .30 | | | | | | | | | | | .21 | | 1.49 |
| Idabel | Red | | | | | | | | | .98 | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Jefferson | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | .02 | | | | 0.02 |
| Kenton | Cimarron | | | | | | | | | | | | | | | | .26 | | | .74 | | | | | | | | | | .08 | | | 1.08 |
| Kingfisher | ...do | | | | | | | | | | | | | | | | | | | T. | T. | | | | | | | | | .67 | .55 | | 1.22 |
| McAlester | Canadian | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | .13 | | | 0.13 |
| McComb | ...do | | | | | | | | | | | | | | | | .25 | .33 | | .03 | | | | | | | | | | | | | 0.61 |
| Mangum‖ | Red | | | | | | | | | | | | | | | | | .25 | | | .05 | | | | | | | | | .17 | | | 0.47 |
| Marlow‖ | Washita | | | | | | | | | | | | | | | | .30 | | | .01 | | | | | | | | | | | | | 0.31 |
| Meeker | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .70 | | | 0.70 |
| Muskogee | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Mutual | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .03 | | | 0.49 |
| Neola | Washita | | | | | | | | | | | | | | | | .41 | | | .05 | | | | | | | | | | T. | | | 0.40 |
| Newkirk | Arkansas | | | | | | | | | | | | | | | | | | | .40 | | | | | | | | | | | | | |
| Norman | Canadian | | | | | | | | | | | | | | | | .13 | | T. | .08 | | | | | | | | | | | | | 0.21 |
| Oakwood | ...do | | | | | | | | | | | | | | | | .08 | | | .29 | | | | | | | | | | T. | | | 0.37 |
| Okeene | Cimarron | | | | | | | | | | | | | | | | .35 | | | .17 | | | | | | | | | | .13 | | | 0.65 |
| Oklahoma | Canadian | | | | | | | | | | | | | | | | T. | .02 | | | | | | | | | | | | .18 | | | 0.20 |
| Okmulgee | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pauls Valley | ...do | | | | | | | | | | | | | | | | | | | | .20 | | | | | | | | | .18 | | | 0.40 |
| Pawhuska | Arkansas | T. | | | | | | | | .02 | | | | | | | | | | | | | | | | | | | | .12 | | | 0.18 |
| Perry | ...do | | | | | | | | | | | | | | | T. | .02 | | | .04 | | | | | | | | | | .22 | | | 1.32 |
| Ravia | Washita | | | | | | | | | | | | | | | | | | | 1.10 | | | | | | | | | | T. | | | 0.35 |
| Sac & Fox Agency | Canadian | | | | | | | | | | | | | | | | .33 | | | | | | | | | | | | | .04 | .06 | | 0.29 |
| Shawnee‖ | ...do | | | | | | | | | | | | | | | | | | | .19 | T. | | | | | | | | | T. | | | 0.54 |
| Snyder | Red | | | | | | | | | | | | | | | | .52 | .02 | T. | | | | | | | | | | | .42 | | | 0.59 |
| Stillwater‖ | Cimarron | | | | | | | | | | | | | | | | | .12 | | | .05 | | | | | | | | | | | | | 0.00 |
| Supply | Canadian | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .07 | | 0.19 |
| Tulsa (1)‖ | Arkansas | | | | | | | | | | | | | | | | | | | | .12 | | | | | | | | | .70 | | | 0.93 |
| Vinita | ...do | | | | | | | | | .13 | | | | | | | | | | | .10 | | | | | | | | | .83 | | | 0.83 |
| Wagoner | ...do | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | | 0.29 |
| Waukomis | Cimarron | | | | | | | | | | | | | | | T. | .10 | | .01 | .18 | T. | | | | | | | | | .10 | | | 0.36 |
| Waurika | Red | | | | | | | | | | | | | | | | .17 | .02 | | .07 | | | | | | | | | | | | | 0.56 |
| Weatherford‖ | Canadian | | | | | | | | | | | | | | | .13 | .25 | | | .18 | | | | | | | | | | | 1.20 | | 1.20 |
| Webbers Falls | Arkansas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .11 | | | 0.26 |
| Whiteagle | ...do | | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | T. | | | T. |
| Woodward | Canadian | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | |
| *Missouri.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.02 |
| Belle | Meramec | T. | | | | | | | | .02 | | | | | | | | | | | | | | | | | | | | | | | 3.17 |
| Birchtree | Black | | | | | | | | | 1.35 | .27 | | | | | | | 1.25 | | | | | | | | | | | | | .30 | | |
| Cape Girardeau‖ | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | .35 | .06 | 1.06 |
| Caruthersville | ...do | T. | | | | | | | | T. | .65 | | | | | | | | | | T. | .60 | | | | | | | | .47 | .44 | | 1.36 |
| Dean | Neosho | .05 | | | | | | | | .34 | .06 | | | | | | | | | | | | | | | | | | | | | | 1.18 |
| Doniphan | Black | .03 | | | | | | | | .70 | .45 | | | | | | | T. | | | | | | | | | | | | | .25 | | 0.25 |
| Farmington | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .25 | | 0.68 |
| Gano | Meramec | .12 | | | | | | | | .20 | .04 | | | | | | | | | | .07 | | | | | | | | | | .27 | | 0.69 |
| Goodland | Black | .18 | | | | | | | | .24 | | | | | | | | | | | | | | | | | | | | | T. | | 1.64 |
| Greenville | Mississippi | T. | | | | | | | | 1.39 | .25 | | | | | | | | T. | | T. | | | | | | | | | | .80 | | 1.10 |
| Hollister | White | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | | .15 | | 0.40 |
| Ironton‖ | Mississippi | | | .08 | | | | | | | .12 | | | | | | | | | .05 | | T. | | | | | | | | | T. | | 0.16 |
| Jackson | ...do | | | | | | | | | .10 | | | | | | | | | | | .06 | | | | | | | | | | .70 | | 1.07 |
| Joplin | Neosho | .05 | | | | | | | | .32 | | | | | | | | | | | | | | | | | | | | | .15 | | 0.98 |
| Koshkonong | Black | .11 | | | | | | | | .43 | .29 | | | | | | | | | | T. | | | | | | | | | | .63 | | 1.60 |
| Lamar‖ | Neosho | .02 | | | | | | | | .09 | .26 | | | | | | | | | | | | | | | | | | | | | | 0.90 |
| Marble Hill | Mississippi | | | | | | | | | T. | | | | | | | | | | | .90 | | | | | | | | | | .49 | | 1.79 |
| Mountaingrove | White | .17 | | | | | | | | .83 | .30 | | | | | | | | | | | | | | | | | | | | | | |
| Mount Vernon | Neosho | | | | | | | | | | | | | | | | | | | | .03 | | | | | | | | | .07 | 1.29 | | 1.68 |
| Neosho | ...do | .03 | | | | | | | | .23 | .03 | | | | | | | | | | | .02 | | | | | | | | | | .07 | 1.93 |
| New Madrid‖ | Mississippi | .06 | | | | | | | | .01 | 1.77 | | | | | | | | | | | | | | | | | | | | .09 | | 0.22 |
| Oakfield | Meramec | T. | | | | | | | | | T. | | | | | | | | T. | | .13 | | | | | | | | | | .53 | | 2.01 |
| Olden | White | | | | | | | | | 1.48 | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Perryville | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .12 | | 0.30 |
| Rolla | Meramec | .04 | | | | | | | | .05 | .09 | | | | | | | | | | T. | | | | | | | | | | T. | .05 | 2.70 |
| Sikeston | Mississippi | | | | | | | | | 2.25 | .40 | | | | | | | | | | | T. | | | | | | | | | | | 1.60 |
| Springfield | White | .01 | | | | | | | | .77 | | | | | | | | T. | | | | | | | | | | | | .75 | .07 | | 0.15 |
| Steelville | Meramec | .09 | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | .06 | | |
| Willow Springs | White | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Kentucky.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.40 |
| Blandville | Mississippi | | | | | | | | | 1.92 | .42 | | | | | | | | | | .03 | | | | | | | | | | T. | .03 | | 1.19 |
| Lynnville | ...do | | | | | | | | T. | .45 | .67 | | | | | | | | | | | | | T. | | | | | | | .07 | | |
| *Tennessee.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.22 |
| Arlington‖ | Mississippi | | | | | | | | | | .07 | | | | | | | | | | | .10 | | | | | | | | | | .05 | | 1.14 |
| Bolivar‖ | ...do | | | | | | | | | T. | .50 | T. | | | | | | | | | | .20 | | | | | | | | | | .44 | | 0.94 |
| Brownsville‖ | ...do | | | | | | | | | .02 | .20 | | | | | | | | | | | T. | | | | | | | | | | .72 | | 0.85 |
| Covington‖ | ...do | | | | | | | | | T. | .60 | | | | | | | | | | | | | | | | | | | | | .31 | | 1.15 |
| Dyersburg‖ | ...do | | | | | | | | | | .43 | | | | | | | | | | | | | | | | | | | | | .72 | | 0.82 |
| Jackson | ...do | | | | | | | | | .05 | .53 | | | | | | | | | | | .03 | | .01 | | | | | | T. | | .20 | | 1.14 |
| Kenton | ...do | | | | | | | | | | .52 | | | | | | | | .01 | .02 | | | | | | | | | | | .29 | .30 | | 0.15 |
| Memphis | do | | | | | | | | | | .10 | .05 | | | | | | | | | | | | T. | | | | | | | T. | | 0.93 |
| Milan‖ | ...do | | | | | | | | | .05 | .40 | | | | | | | | | | | | | | | | | | | | | .48 | | 1.04 |
| Trenton | ...do | | | | | | | | | .20 | .65 | | | | | | | | | | | .09 | | | | | | | | | | .10 | | |
| Union City | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.95 |
| *Arkansas.* | | | | | | | | | | .40 | | | | | | | | | | | | .45 | | | | | | | | .10 | | | 1.84 |
| Alicia | White | | | | | | | | | T. | .40 | | | | | | | | | .40 | | | | | | | | | | .77 | .27 | | 1.36 |
| Amity | Ouachita | | | | | | | | | | .24 | | | | | | | | T. | .10 | | | | | | | | | | * | 1.02 | | 1.16 |
| Arkadelphia (near) | do | | | | | | | | | | .60 | .30 | | | | | | | | | .10 | | | | | | | | | .02 | .14 | | 1.27 |
| Arkansas City‖ | Mississippi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .12 | | 0.30 |
| Batesville (2)‖ | White | | .01 | | | | | | | .01 | 1.12 | .01 | | | | | | | | | | | | | | | | | | .30 | T. | | 1.46 |
| Bee Branch | Arkansas | | | | | | | | | | | | | | | | | | | .21 | | | | | | | | | T. | .85 | | | 1.86 |
| Benton | Ouachita | | | | | | | | | .40 | | | | | | | | | | | | | | | | | | | 1.67 | | | | 1.51 |
| Bentonville | Arkansas | .01 | | | | | | | T. | .15 | .01 | | | | | | .02 | | | | | | | | | | | | | .34 | | | 1.07 |
| Bergman | White | .07 | | | | | | | | .44 | .48 | | | | | | | | | | .18 | | | | | | | | | | .05 | | | 1.13 |
| Black Rock‖ | ...do | | | | | | | | | .05 | .92 | | | | | | | | | | | .05 | | | | | | | | | | .83 | | 0.84 |
| Brinkley‖ | ...do | | | | | | | | | | .22 | | | | | | | | | | .08 | | | | | | | | | T. | | | 1.20 |
| Calico Rock‖ | ...do | T. | .10 | | | | | | | T. | .74 | | | | | | | | | | | | | | | | | | | .02 | .68 | | 2.05 |
| Camden‖ | Ouachita | | | | | | | | | | .50 | | | | | | | | | | | | | | | | | | | T. | 1.15 | | 1.40 |
| Centerpoint | Red | | | | | | | | | .50 | | | | | | | | T. | T. | .40 | | | | | | | | | | | .81 | | 0.44 |
| Clarendon‖ | White | | | | | | | | | | .07 | | | | | | | | T. | | .52 | | | | | | | | | | | | 1.82 |
| Conway | Arkansas | | | | | | | | | T. | .43 | | | | | | | .01 | | T. | T. | | | | | | | | | T. | T. | | 0.92 |
| Corning | White | | | | | | | | | .42 | 1.20 | | | | | | | T. | .18 | | T. | .02 | | | | | | | | T. | | | |
| Dardanelle‖ | Arkansas | T. | .05 | | | | | | | | .83 | | | | | | T. | .04 | | | T. | | | | | | | | | | .12 | | 1.02 |
| Dennard | White | | | | | | | | | * | .90 | | | | | | | | | | | | | | | | | | | | | | |
| Dodd City | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dutton | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 2.—*Daily precipitation for March, 1910. District No 7*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Arkansas*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Earl | St. Francis | | | | | | | | | | .48 | | | | | | | | | | | .09 | | | | | | | | | .86 | 1.43 |
| Eldorado‖ | Ouachita | | | | | | | | | | 1.64 | | | | | | | | .01 | .01 | T. | T. | | | | | | | | T. | 1.00 | 2.66 |
| England‖ | Arkansas | T. | T. | | | | | | | | T. | | | | | | | T. | T. | T. | T. | | | | | | | | | | 1.00 | 1.00 |
| Eureka Springs | White | | | | | | | | | | .45 | | | | | | | | | | | | | | | | | | | | 1.10 | 1.55 |
| Fayetteville | do | .04 | | | | | | | | | .18 | | | | | | | | | | | | | | | | | | | .08 | 1.27 | | 1.57 |
| Fort Smith | Arkansas | .02 | | | | | | | | .13 | | | | | | | .03 | .01 | | .14 | | | | | | | | | | .29 | .25 | | 0.87 |
| Fulton‖ | Red | | | | | | | | | | .30 | | | | | | | | | .10 | .70 | | | | | | | | | | | 1.30 | 2.40 |
| Hardy | White | .04 | | | | | | | | .46 | .51 | | | | | | | | | | | | | | | | | | | | T. | | 1.01 |
| Helena (2)‖ | Mississippi | | | | | | | | | | .16 | .04 | | | | | | | T. | | .24 | .06 | | | | | | | | | | .74 | 1.24 |
| Hot Springs | Ouachita | | | | | | | | | | .43 | | | | | | | T. | | .15 | | | | | | | | | | | .77 | .24 | 1.59 |
| Huttig | do | | | | | | | | | | .35 | | | | | | | | | | .13 | | | | | | | | | | | .43 | 0.91 |
| Jonesboro | White | | | | | | | | | * | .90 | | | | | | | | | | | | | | | | | | | | .30 | .40 | 1.60 |
| Junction | Ouachita | T. | | | | | | | | | .60 | | | | | | | T. | T. | | | | | | | | | | | | 1.12 | T. | 1.72 |
| Lake Farm | Arkansas | | | | | | | | | .50 | | | | | | | | .21 | | .20 | | | | | | | | | | | .40 | | 1.31 |
| Lewisville | Red | | | | | | | | | | .30 | | | | | | | T. | .13 | .45 | | | | | | | | | | | .43 | .30 | 1.61 |
| Little Rock | Arkansas | | | | | | | | | .07 | .10 | | | | | | | T. | | T. | | | | | | | | | | T. | .65 | .05 | 0.87 |
| Lutherville | do | .11 | | | | | | | | T. | .63 | | | | | | | | | | | | | | | | | | | | | | 0.74 |
| McNeil | Ouachita | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Malvern‖ | do | | | | | | | | | | .20 | T. | | | | | | | T. | | .30 | | | | | | | | | | .65 | | 1.15 |
| Mammoth Spring | White | .05 | | | | | | | .30 | .30 | | | | | | | | | | | .24 | | | | | | | | | .01 | .10 | | 1.00 |
| Marked Tree‖ | St. Francis | | | | | | | | | .06 | .30 | | | | | | | | | T. | | T. | | | | | | | | | | .75 | 1.11 |
| Mena | Ouachita | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mossville | White | | | | | | | | | * | .60 | | | | | | | | | | | | | | | | | | | | T. | | 0.60 |
| Mount Nebo | Arkansas | | | | | | | | | .40 | | | | | | | | | | | | | | | | | | | | | | | 0.40 |
| Newport (1)‖ | White | | | | | | | | | .02 | .40 | | | | | | | | | | | | | | | | | | | | | .68 | 1.10 |
| Ozark | Arkansas | | | | | | | | | | .31 | | | | | | T. | | | T. | | | | | | | | | | T. | .12 | | 0.43 |
| Pine Bluff‖ | do | | | | | | | | | | .20 | | | | | | | T. | | | .10 | | | | | | | | | | | .44 | 0.74 |
| Pocahontas | White | | | | | | | | | .27 | 1.12 | | | | | | | | | | | | | | | | | | | | | | 1.39 |
| Pond | Arkansas | .02 | | | | | | | | .03 | | | | | | | | .04 | | | | | | | | | | | | * | 1.85 | | 1.94 |
| Portland‖ | Ouachita | | | | | | | | | | 2.02 | 1.03 | | | | | | | T. | | T. | | | | | | | | | | | T. | 3.05 |
| Prescott‖ | do | | | | | | | | | | .52 | | | | | | | | .03 | | .58 | | | | | | | | | | | .80 | 1.93 |
| Rogers | Arkansas | .10 | | | | | | | | .18 | | | | | | | | | | | | | | | | | | | | .25 | 1.20 | | 1.73 |
| Spielerville | do | .02 | | | | | | | | .62 | .29 | | | | | | T. | | | T. | | | | | | | | | | | T. | | 0.93 |
| Springbank‖ | Red | | | | | | | | | | .75 | | | | | | | T. | .05 | .40 | .21 | | | | | | | | | | | .64 | 2.05 |
| Stuttgart | Arkansas | | | | | | | | | | .18 | | | | | | | | | .10 | | | | | | | | | | | .43 | .22 | 0.93 |
| Texarkana‖ | Red | | | | | | | | | | .70 | | | | | | | | | | .14 | | | | | | | | | | T. | 1.90 | 2.74 |
| Warren‖ | Ouachita | | | | | | | | | | 1.20 | | | | | | | | | | | | | | | | | | | | | .82 | 2.02 |
| Whitecliffe‖ | Red | | | | | | | | | | .48 | | | | | | | | | T. | .33 | | | | | | | | | | T. | 1.83 | 2.64 |
| Wiggs | Ouachita | | | | | | | | | T. | .35 | | | | | | T. | .02 | .43 | | | | | | | | | | | T. | .94 | | 1.74 |
| Wynne‖ | St. Francis | | | | | | | | | | .41 | .03 | | | | | | | | | | .16 | | | | | | | | | | 1.94 | 2.54 |
| *Mississippi* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anguilla | Yazoo | | | | | | | | | | .45 | | | | | | | T. | | | | T. | | | | | | | | | T. | | 0.45 |
| Austin | do | | | | | | | | | | | | | .13 | | | | | | T. | .11 | .30 | | | | | | | | | .04 | .59 | 1.17 |
| Batesville‖ | do | | | | | | | | | | | | | | | | | | | | .20 | .40 | | | | | | | | | | | 0.60 |
| Byhalia | do | | | | | | | | | | .07 | | | | | | | | | T. | | .06 | | | | | | | | | T. | .21 | 0.34 |
| Canton | Big Black | | | | | | | | | | .37 | | | | | | | | | | | .19 | | | | | | | | | | | 0.56 |
| Clarksdale‖ | Yazoo | | | | | | | | | | | | | | | | | | | | .08 | | | | | | | | | | | | |
| Coffeeville | do | .04 | | | | | | | | | .34 | | | | | | | | .10 | | | .05 | | | | | | | | | | | 0.53 |
| Corinth‖ | Mississippi | | .04 | | | | | | | T. | .04 | .08 | | | | | | | | | | .08 | | T. | | | | | | | | | 0.24 |
| Crenshaw | Yazoo | .02 | | | | | | | | | .24 | | | | | | | T. | | .01 | .05 | .03 | | | | | | | | | .08 | .10 | 0.53 |
| Denmark | do | | | | | | | | | | | | | | | | | | | | | .11 | | | | | | | | | | | |
| Duck Hill | do | T. | | | | | | | | | .30 | | | | | | | T. | T. | | | T. | | | | | | | | | | | 0.30 |
| Edwards | Big Black | | | | | | | | | | .65 | | | | | | | | T. | T. | | .19 | | | | | | | | | | | 0.84 |
| Enid | Yazoo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fayette | Mississippi | | | | | | | | | | .40 | | | | | | | | | T. | | | | | | | | | | | | | 0.40 |
| Greenville‖ | Yazoo | | | | | | | | | | .07 | .10 | | | | | | | | | | | | | | | | | | | | .03 | 0.20 |
| Greenwood‖ | do | | T. | | | | | | | | T. | .42 | | | | | | | T. | | T. | .20 | .06 | | | | | | | | | | 0.68 |
| Grenada | do | | | T. | | | | | | | .68 | | | | | | | T. | | | | | | | | | | | | | | T. | 0.68 |
| Hernando‖ | do | | | | | | | | | | .08 | .05 | | | | | | | | | T. | .20 | | | | | | | | | | .45 | 0.78 |
| Hickory Flat | do | | | | | | | | | | .15 | | | | | | | | | | | | | | | | | | | | | | 0.15 |
| Holly Springs‖ | do | .01 | | | | | | | | | .17 | .06 | | | | | | | | | | .06 | | | | | | | | | | .12 | 0.42 |
| Kosciusko‖ | Big Black | .02 | | | | | | | | | .01 | .26 | | | | | | | .02 | | | .01 | | | | | | | | | | | 0.32 |
| Lake Coromrant | Yazoo | | | | | | | | | | .08 | | | | | | | | | .18 | | | | | | | | | | | .22 | .40 | 0.88 |
| Lula | do | | | | | | | | | .28 | | | | | | | T. | | | .12 | | .10 | | | | | | | | | .54 | .15 | 1.19 |
| Malone | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marks | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Natchez‖ | Mississippi | | | | | | | | | | .03 | .80 | | | | | | | | T. | | T. | T. | | | | | | | | | | | 0.83 |
| New Albany | Yazoo | | .15 | | | | | | | | .23 | | | | | | | | | | | .09 | | | | | | | | | | | 0.47 |
| Pontotoc | do | | | | | | | | | | .30 | | | | | | | | T. | | | .27 | | | | | | | | | | | 0.57 |
| Port Gibson‖ | Mississippi | | | | | | | | | | 1.59 | 1.68 | | | | | | | T. | T. | | | | | | | | | | | | | 3.27 |
| Ripley | Yazoo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rosedale‖ | do | | | | | | | | | | .70 | .10 | | | | | | | | | .10 | | | | | | | | | | | .10 | 1.00 |
| Senatobia | do | | | | | | | | | | .18 | | | | | | | | | T. | | .09 | | | | | | | | | | .41 | 0.68 |
| Shoccoe | Big Black | | | | | | | | | | .41 | | | | | | | | | | | .15 | | | | | | | | | | | 0.56 |
| Suffolk | Mississippi | | | | | | | | | | .32 | | | | | | | | T. | | | | | | | | | | | | | | 0.32 |
| Swan Lake‖ | Yazoo | | | | | | | | | | T. | .20 | | | | | | | T. | | | | | | | | | | | | T. | | 0.20 |
| Tchula | do | T. | | | | | | | | | .75 | | | | | | | T. | | | | .30 | | | | | | | | | | | 1.05 |
| University | do | | | | | | | | | | .34 | | | | | | | | | | T. | .10 | | | | | | | | | | | 0.44 |
| Utica | Mississippi | | | | | | | | | | 1.89 | | | | | | | | T. | | | .20 | | | | | | | | | | | 2.09 |
| Vicksburg | do | | | | | | | | | | .53 | | | | | | | T. | T. | | | | | | | | | | | | T. | | 0.53 |
| Water Valley | Yazoo | T. | | | | | | | | | .38 | | | | | | | | | .15 | | | | | | | | | | | | | 0.53 |
| Woodville | Mississippi | | | | | | | | | | .20 | | | | | | | | T. | | | | T. | | | | | | | | | T. | 0.20 |
| Yazoo City‖ | Yazoo | | | | | | | | | | | .26 | | | | | | | | | T. | T. | | | | | | | | | | | 0.26 |
| *Louisiana.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abbeville | Coast | .03 | | | | | | | | .27 | 1.20 | | | | | | | T. | | | .04 | .06 | | | | | | | | | .10 | | 1.70 |
| Alexandria‖ | Red | | | | | | | | | | .40 | .70 | | | | | | | | | | | | | | | | | | | T. | .15 | 1.25 |
| Amite‖ | Coast | | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | T. | 0.10 |
| Baton Rouge‖ | do | | | | | | | | | | | .51 | | | | | | | | | | | T. | | | | | | | | | | 0.51 |
| Burnside | do | | | | | | | | | | .50 | | | | | | | | | | | | | | | | | | | | | .33 | 0.83 |
| Burrwood | do | 1.00 | | | | | | | | | .35 | | | | | | | | | | | | | | | | | | | | | | 1.35 |
| Calhoun | Ouachita | | | | | | | | | | .75 | | | | | | | | .06 | .06 | .11 | | | | | | | | | | .02 | .06 | 1.06 |
| Cameron | Coast | | | | | | | | | | .54 | | | | | | | T. | | | | | | | | | | | | | | | 0.54 |
| Cheneyville‖ | Red | | | | | | | | | | | 1.00 | | | | | | | | | | | | | | | | | | | | .32 | 1.32 |
| Clinton‖ | Coast | | | | | | | | | | .41 | .15 | | | | | | | | | | | | | | | | | | | | | 0.56 |
| Collinston‖ | Ouachita | | | | | | | | | | | .52 | | | | | | | | | | | | | | | | | | | | .20 | 0.72 |
| Covington‖ | Coast | | | | | | | | | | | .45 | | | | | | | | | | | | | | | | | | | | | 0.45 |
| Dodson | Red | | | | | | | | | | .58 | | | | | | | | 1.75 | | | | | | | | | | | | | .26 | 2.59 |
| Donaldsonville‖ | Coast | | | | | | | | | | | .45 | | | | | | | | | | | 15 | | | | | | | | T. | | 0.60 |
| Farmerville‖ | Ouachita | | | | | | | | | | .12 | | | | | | | | | | | | | | | | | | | | .66 | | 0.78 |
| Ferriday | do | | | | | | | | | | 1.43 | | | | | | | | | | | .05 | | | | | | | | | | | 1.48 |
| Franklin‖ | Coast | | | | | | | | | | | .58 | | | | | | | | | T. | | .17 | | | | | | | | | | 0.75 |
| Grand Cane‖ | Red | | | | | | | | | | | .24 | | | | | | | | .20 | | | | | | | | | | | | .91 | 1.35 |
| Grand Coteau | Coast | | | | | | | | | | .20 | | | | | | | | | | | | | | | | | | | | T. | T. | 0.20 |
| Hammond | do | | | | | | | | | | .38 | | | | | | | | | | | | | | | | | | | | | | 0.38 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 7*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Louisiana*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Houma | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jennings | do | | | | | | | | | | | .72 | | | | | | | | | | | | | | | | | | | | .10 | 0.82 |
| Lafayette | do | | | | | | | | | | | 1.10 | | | | | | | .03 | | | | .34 | | | | | | | | | | 1.47 |
| Lake Charles | do | | | | | | | | | | | .39 | | | | | | | | | | | | | | | | | | | | | 0.39 |
| Lakeside | do | | | | | | | | | | .36 | | | | | | | | | | | | | | | | | | | | | | 0.36 |
| Lawrence | do | .35 | | | | | | | | | | 1.70 | | | | | | | | | | | | | | | | | | | .06 | | 2.11 |
| Liberty Hill | Red | | | | | | | | | | .35 | | | | | | | | .75 | | | | | | | | | | | | .75 | .64 | 2.49 |
| Logansport | Sabine | | | | | | | | | | T. | .29 | | | | | | | .09 | | | | | | | | | | | | | .70 | 1.08 |
| Melville | Red | | | | | | | | | | | .20 | | | | | | T. | | | | | | | | | | | | | | | 0.20 |
| Minden | do | | | | | | | | | | .28 | | | | | | | | .10 | .67 | | | | | | | | | | | T. | .52 | 1.57 |
| Monroe | Ouachita | | | | | | | | | | .28 | .08 | | | | | | | T. | | | .06 | | | | | | | | | | .10 | 0.52 |
| Morgan City | Coast | | | | | | | | | | | .36 | | | | | | | | | | | .32 | | | | | | | | | | 0.68 |
| Newellton | Mississippi | | | | | | | | | | | .93 | | | | | | | | | T. | T. | | | | | | | | | | | 0.93 |
| New Iberia | Coast | | | | | | | | | | 1.50 | .45 | | | | | | T. | | T. | | T. | | | | | | | | | | | 1.95 |
| New Orleans (1) | do | | | | | | | | | | 3.13 | | | | | | | | | | | | | | | | | | | | T. | .02 | 3.15 |
| New Orleans (2) | do | | | | | | | | | | 3.40 | | | | | | | | | | | | | | | | | | | | | .45 | 3.85 |
| New Orleans (3) | do | | | | | | | | | | 2.05 | | | | | | | | | | | | | | | | | | | | | .29 | 2.34 |
| New Orleans (4) | do | | | | | | | | | | 3.35 | | | | | | | | | | | | | | | | | | | | | .41 | 3.76 |
| New Orleans (5) | do | | | | | | | | | | 3.28 | | | | | | | | | | | | | | | | | | | | | | 3.28 |
| New Orleans (6) | do | | | | | | | | | | 2.94 | | | | | | | | | | | | | | | | | | | | .02 | .07 | 3.03 |
| New Orleans (7) | do | | | | | | | | | | 2.84 | | | | | | | | | | | | | | | | | | | | | .06 | 2.90 |
| New Orleans (8) | do | | | | | | | | | | 2.26 | | | | | | | | | | | | | | | | | | | | | | 2.26 |
| Opelousas | do | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Plain Dealing | Red | | | | | | | | | | .56 | | | | | | | | .65 | | | | | | | | | | | | .29 | .44 | 1.94 |
| Rayne | Coast | | | | | | | | | | | .95 | | | | | | | | | .31 | | | | | | | | | | T. | | 1.26 |
| Reserve | do | | | | | | | | | | | 1.19 | | | | | | | | | | | | | | | | | | | | | 1.19 |
| Robeline | Red | | | | | | | | | | .77 | .12 | | | | | | | | | .33 | | | | | | | | | | | .30 | 1.52 |
| Ruston | Ouachita | | | | | | | | | | .50 | | | | | | | | .10 | .20 | .20 | | | | | | | | | | 1.00 | T. | 2.00 |
| St. Francisville | Mississippi | | | | | | | | | | | .97 | | | | | | | | | | | | | | | | | | | | | 0.97 |
| Schriever | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shreveport | Red | T. | | | | | | | | | .42 | | | | | | | T. | 1.69 | | | | | | | | | | | | T. | .70 | .03 | 2.84 |
| Simmesport | do | | .03 | | | | | | | | | .26 | | | | | | | | | | | | | | | | | | | | | 0.29 |
| Southern Univ. Farm | Coast | | | | | | | | | | 2.00 | .80 | | | | | | | | | | | | | | | | | | | | T. | 2.80 |
| Sugartown | Red | | | | | | | | | | 1.02 | | | | | | | | | | | | | | | | | | | | | | 1.02 |
| Tallulah | Mississippi | | | | | | | | | | .34 | | | | | | | | | | | | | | | | | | | | | | 0.34 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 7, Lower Mississippi Valley.*

| Date. | Colorado. | | | | | | New Mexico. | | | | Texas. | | | | Kansas. | | | | | | | | | | Oklahoma | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Lamar. | | Leadville. | | Pueblo. | | Albert. | | Cimarron. | | Amarillo. | | Paris.‡‡ | | Dodge City. | | Ellinwood. | | Iola. | | Liberal. | | Wichita. | | Ardmore.‡‡ | | Bartlesville. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 73 | 24 | 41 | 19 | 68 | 42 | 73 | 37 | 68 | 33 | 69 | 37 | 77 | 36 | 66 | 29 | 62 | 32 | 61 | 38 | 70 | 29 | 61 | 33 | 73 | 42 | 67 | 29 |
| 2... | 76 | 29 | 44 | 18 | 70 | 42 | 72 | 40 | 67 | 40 | 76 | 37 | 79 | 44 | 74 | 32 | 78 | 33 | 76 | 36 | 75 | 30 | 77 | 40 | 82 | 37 | 78 | 36 |
| 3... | 74 | 30 | 49 | 18 | 69 | 34 | 74 | 39 | 68 | 33 | 76 | 43 | 84 | 45 | 77 | 37 | 78 | 33 | 79 | 40 | 80 | 62 | 80 | 47 | 85 | 45 | 82 | 40 |
| 4... | 79 | 30 | 46 | 20 | 75 | 33 | 80 | 40 | 73 | 31 | 83 | 46 | 83 | 49 | 82 | 41 | 82 | 32 | 79 | 42 | 85 | 36 | 82 | 42 | 85 | 47 | 83 | 46 |
| 5... | 85 | 32 | 48 | 26 | 78 | 36 | 84 | 46 | 77 | 29 | 87 | 42 | 82 | 51 | 86 | 40 | 87 | 36 | 82 | 48 | 89 | 35 | 84 | 46 | 86 | 50 | 87 | 46 |
| 6... | 75 | 34 | 48 | 25 | 60 | 35 | 66 | 42 | 67 | 37 | 62 | 41 | 88 | 52 | 60 | 31 | 75 | 41 | 64 | 33 | 72 | 44 | 63 | 43 | 78 | 52 | 65 | 58 |
| 7... | 75 | 30 | 46 | 25 | 76 | 27 | 78 | 31 | 73 | 25 | 80 | 32 | 74 | 48 | 72 | 30 | 71 | 30 | 64 | 27 | 79 | 27 | 65 | 33 | 74 | 41 | 69 | 46 |
| 8... | 64 | 30 | 46 | 20 | 58 | 36 | 65 | 48 | 65 | 36 | 64 | 45 | 86 | 48 | 60 | 38 | 64 | 36 | 65 | 39 | 74 | 35 | 64 | 41 | 88 | 40 | 69 | 56 |
| 9... | 59 | 27 | 35 | 17 | 50 | 28 | 61 | 38 | 57 | 27 | 58 | 34 | 86 | 49 | 50 | 30 | 53 | 32 | 44 | 32 | 53 | 32 | 45 | 32 | 78 | 47 | 56 | 41 |
| 10... | 64 | 21 | 41 | 4 | 61 | 24 | 60 | 31 | 54 | 21 | 55 | 31 | 56 | 43 | 55 | 30 | 56 | 23 | 51 | 29 | 58 | 22 | 52 | 29 | 58 | 38 | 53 | 36 |
| 11... | 67 | 25 | 45 | 13 | 62 | 27 | 65 | 31 | 58 | 28 | 66 | 32 | 68 | 36 | 68 | 29 | 68 | 28 | 65 | 32 | 70 | 28 | 67 | 33 | 72 | 29 | 65 | 30 |
| 12... | 77 | 30 | 43 | 20 | 73 | 28 | 70 | 34 | 66 | 26 | 73 | 39 | 78 | 47 | 76 | 34 | 80 | 31 | 73 | 28 | 78 | 35 | 77 | 35 | 80 | 30 | 69 | 34 |
| 13... | 75 | 29 | 45 | 16 | 69 | 38 | 74 | 37 | 67 | 32 | 74 | 39 | 84 | 44 | 76 | 38 | 75 | 35 | 75 | 39 | 82 | 35 | 74 | 41 | 85 | 40 | 80 | 50 |
| 14... | 63 | 29 | 47 | 20 | 57 | 36 | 66 | 35 | 65 | 28 | 65 | 38 | 75 | 54 | 57 | 33 | 64 | 30 | 56 | 32 | 61 | 32 | 56 | 35 | 71 | 50 | 61 | 38 |
| 15... | 70 | 33 | 43 | 20 | 64 | 32 | 60 | 36 | 58 | 29 | 65 | 35 | 65 | 44 | 65 | 34 | 63 | 31 | 59 | 26 | 67 | 35 | 62 | 32 | 68 | 40 | 64 | 30 |
| 16... | 70 | 30 | 46 | 14 | 64 | 32 | 66 | 36 | 61 | 29 | 59 | 40 | 62 | 42 | 68 | 40 | 72 | 42 | 69 | 41 | 70 | 35 | 67 | 48 | 61 | 39 | 71 | 46 |
| 17... | 77 | 27 | 45 | 22 | 70 | 33 | 76 | 38 | 66 | 39 | 72 | 34 | 57 | 41 | 74 | 38 | 76 | 39 | 70 | 45 | 78 | 32 | 69 | 45 | 60 | 45 | 70 | 48 |
| 18... | 78 | 30 | 47 | 24 | 73 | 32 | 77 | 42 | 70 | 32 | 77 | 43 | 68 | 50 | 71 | 41 | 62 | 40 | 63 | 43 | 80 | 40 | 59 | 44 | 68 | 48 | 70 | 46 |
| 19... | 81 | 33 | 51 | 23 | 74 | 37 | 77 | 41 | 71 | 38 | 76 | 47 | 62 | 50 | 78 | 51 | 79 | 46 | 72 | 46 | 82 | 43 | 76 | 46 | 68 | 50 | 79 | 48 |
| 20... | 83 | 33 | 51 | 24 | 78 | 37 | 75 | 47 | 70 | 35 | 79 | 48 | 80 | 49 | 80 | 44 | 81 | 39 | 78 | 50 | 83 | 44 | 79 | 49 | 85 | 46 | 80 | 52 |
| 21... | 85 | 37 | 55 | 27 | 80 | 35 | 75 | 41 | 72 | 32 | 78 | 46 | 86 | 50 | 84 | 47 | 87 | 47 | 82 | 46 | 85 | 41 | 84 | 49 | 88 | 52 | 86 | 46 |
| 22... | 88 | 37 | 53 | 26 | 81 | 39 | 79 | 45 | 75 | 29 | 78 | 45 | 89 | 53 | 86 | 49 | 88 | 50 | 89 | 55 | 87 | 41 | 86 | 53 | 90 | 51 | 91 | 58 |
| 23... | 88 | 49 | 46 | 31 | 76 | 51 | 80 | 51 | 71 | 39 | 83 | 50 | 90 | 54 | 88 | 54 | 87 | 59 | 87 | 56 | 88 | 48 | 83 | 55 | 88 | 50 | 89 | 55 |
| 24... | 79 | 36 | 47 | 29 | 76 | 37 | 78 | 44 | 71 | 35 | 83 | 51 | 86 | 55 | 78 | 48 | 82 | 52 | 84 | 61 | 83 | 44 | 83 | 60 | 87 | 56 | 88 | 60 |
| 25... | 82 | 38 | 49 | 26 | 74 | 36 | 81 | 46 | 73 | 34 | 87 | 52 | 87 | 55 | 90 | 44 | 90 | 45 | 88 | 52 | 92 | 47 | 89 | 55 | 87 | 55 | 91 | 58 |
| 26... | 78 | 54 | 37 | 21 | 61 | 41 | 75 | 54 | 63 | 44 | 81 | 49 | 85 | 54 | 82 | 55 | 81 | 56 | 83 | 62 | 85 | 60 | 79 | 62 | 83 | 57 | 85 | 58 |
| 27... | 72 | 37 | 43 | 15 | 68 | 40 | 73 | 35 | 66 | 24 | 78 | 37 | 84 | 54 | 76 | 40 | 80 | 39 | 86 | 62 | 77 | 32 | 81 | 52 | 82 | 53 | 88 | 65 |
| 28... | 80 | 42 | 39 | 20 | 76 | 33 | 75 | 36 | 67 | 24 | 72 | 45 | 82 | 56 | 78 | 48 | 81 | 45 | 82 | 61 | 79 | 46 | 81 | 62 | 80 | 58 | 84 | 60 |
| 29... | 67 | 36 | 24 | 14 | 48 | 35 | 72 | 37 | 48 | 31 | 68 | 36 | 71 | 56 | 65 | 42 | 78 | 52 | 70 | 55 | 70 | 40 | 73 | 55 | 68 | 48 | 73 | 65 |
| 30... | 56 | 35 | 30 | 6 | 55 | 30 | 56 | 28 | 51 | 20 | 57 | 33 | 63 | 58 | 57 | 37 | 75 | 38 | 62 | 44 | 69 | 44 | 61 | 41 | 62 | 47 | 68 | 47 |
| 31... | 70 | 22 | 41 | 14 | 65 | 24 | 65 | 28 | 57 | 20 | 64 | 31 | 63 | 50 | 67 | 24 | 77 | 25 | 67 | 37 | 70 | 22 | 67 | 37 | 69 | 46 | 73 | 40 |
| Mns | 74.5 | 32.5 | 44.2 | 19.6 | 68.0 | 34.5 | 71.8 | 39.2 | 65.6 | 30.6 | 72.4 | 40.6 | 76.8 | 48.9 | 72.5 | 39.0 | 75.2 | 38.6 | 71.8 | 43.1 | 76.5 | 37.9 | 71.8 | 44.4 | 77.1 | 46.1 | 75.3 | 47.4 |

| Date. | Oklahoma. | | | | | | | | | | | | | | Missouri. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Enid ‡‡ | | McAlester. | | Mangum.‡‡ | | Muskogee. | | Oklahoma. | | Weatherford.‡‡ | | Woodward. | | Caruthersville. | | Ironton.‡‡ | | Lamar.‡‡ | | Olden. | | Springfield. | | Lynnville, Ky. | | Jackson, Tenn. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 70 | 33 | 67 | 49 | 71 | 40 | 67 | 43 | 67 | 40 | 69 | 37 | 68 | 34 | 66 | 53 | 55 | 32 | 64 | 32 | 72 | 37 | 59 | 40 | 64 | 32 | 71 | 36 |
| 2... | 84 | 34 | 80 | 41 | 82 | 32 | 78 | 47 | 80 | 42 | 84 | 35 | 78 | 31 | 75 | 35 | 72 | 27 | 75 | 39 | 54 | 38 | 71 | 40 | 69 | 39 | 73 | 44 |
| 3... | 84 | 34 | 83 | 50 | 77 | 37 | 83 | 43 | 81 | 46 | 82 | 40 | 81 | 31 | 80 | 38 | 78 | 32 | 77 | 39 | 78 | 47 | 75 | 49 | 78 | 44 | 82 | 40 |
| 4... | 84 | 40 | 82 | 54 | 82 | 35 | 83 | 51 | 82 | 48 | 89 | 38 | 86 | 33 | 87 | 40 | 82 | 36 | 79 | 43 | 80 | 50 | 77 | 53 | 79 | 48 | 84 | 44 |
| 5... | 91 | 44 | 84 | 59 | 90 | 36 | 86 | 53 | 86 | 52 | 90 | 39 | 92 | 52 | 87 | 45 | 84 | 45 | 83 | 49 | 81 | 56 | 81 | 56 | ..... | ..... | 82 | 47 |
| 6... | 65 | 37 | 81 | 54 | 67 | 43 | 76 | 51 | 68 | 43 | 65 | 51 | 83 | 49 | 86 | 50 | 73 | 54 | 63 | 32 | 76 | 55 | 66 | 40 | ..... | ..... | 83 | |
| 7... | 71 | 30 | 72 | 40 | 71 | 31 | 69 | 36 | 70 | 34 | 75 | 30 | 73 | 25 | 71 | 34 | 63 | 38 | 64 | 39 | 65 | 31 | 62 | 36 | 78 | 35 | 82 | 39 |
| 8... | 71 | 32 | 86 | 49 | 72 | 31 | 80 | 48 | 75 | 51 | 73 | 38 | 68 | 31 | 72 | 34 | 68 | 27 | 67 | 32 | 70 | 39 | 67 | 44 | 66 | 32 | 70 | 35 |
| 9... | 51 | 42 | 82 | 60 | 60 | 41 | 68 | 49 | 59 | 37 | 57 | 35 | 58 | 35 | 54 | 39 | 40 | 38 | 40 | 40 | 61 | 34 | 48 | 32 | 54 | 37 | 76 | 47 |
| 10... | 61 | 34 | 60 | 38 | 55 | 34 | 57 | 36 | 53 | 32 | 56 | 34 | 56 | 29 | 51 | 36 | 51 | 32 | 51 | 32 | 51 | 32 | 46 | 31 | 50 | 35 | 61 | 38 |
| 11... | 81 | 35 | 72 | 30 | 74 | 23 | 71 | 29 | 70 | 33 | 74 | 29 | 71 | 30 | 66 | 28 | 64 | 21 | 65 | 31 | 62 | 28 | 59 | 33 | 58 | 28 | 61 | 29 |
| 12... | 83 | 35 | 78 | 41 | 77 | 28 | 74 | 32 | 77 | 37 | 72 | 32 | 78 | 32 | 63 | 39 | 61 | 30 | 68 | 29 | 67 | 30 | 61 | 33 | 57 | 37 | 62 | 35 |
| 13... | 63 | 40 | 89 | 50 | 82 | 31 | 81 | 43 | 83 | 48 | 89 | 37 | 81 | 30 | 79 | 36 | 74 | 33 | 75 | 41 | 76 | 30 | 71 | 48 | 74 | 39 | 77 | 34 |
| 14... | 69 | 39 | 83 | 46 | 67 | 44 | 73 | 43 | 63 | 41 | 69 | 41 | 76 | 46 | 63 | 40 | 53 | 33 | 56 | 32 | 69 | 24 | 51 | 34 | 62 | 36 | 74 | 40 |
| 15... | 61 | 40 | 66 | 37 | 68 | 32 | 69 | 33 | 65 | 38 | 57 | 38 | 68 | 31 | 53 | 30 | 53 | 17 | 57 | 29 | 68 | 25 | 52 | 28 | 49 | 26 | 52 | 29 |
| 16... | 58 | 39 | 64 | 45 | 53 | 32 | 59 | 43 | 51 | 43 | 60 | 42 | 65 | 46 | 70 | 26 | 70 | 28 | 66 | 31 | 68 | 24 | 63 | 39 | 62 | 28 | 64 | 25 |
| 17... | 68 | 37 | 68 | 51 | 61 | 43 | 68 | 45 | 61 | 43 | 65 | 43 | 76 | 45 | 72 | 38 | 71 | 36 | 69 | 41 | 68 | 34 | 64 | 44 | 68 | 42 | 71 | 46 |
| 18... | 65 | 39 | 70 | 52 | 65 | 46 | 70 | 49 | 68 | 49 | 64 | 41 | 72 | 45 | 74 | 36 | 72 | 35 | 71 | 43 | 68 | 34 | 64 | 44 | 71 | 41 | 73 | 42 |
| 19... | 79 | 45 | 73 | 52 | 76 | 48 | 74 | 48 | 70 | 53 | 83 | 47 | 78 | 51 | 80 | 42 | 73 | 35 | 70 | 47 | 71 | 35 | 68 | 47 | 70 | 45 | 73 | 47 |
| 20... | 83 | 49 | 83 | 53 | 83 | 46 | 81 | 50 | 80 | 51 | 86 | 48 | 82 | 47 | 82 | 43 | 76 | 45 | 79 | 52 | 78 | 49 | 73 | 52 | 73 | 47 | 77 | 44 |
| 21... | 89 | 55 | 88 | 52 | 84 | 48 | 86 | 45 | 83 | 56 | 88 | 48 | 87 | 50 | 78 | 43 | 74 | 35 | 81 | 45 | 78 | 46 | 74 | 48 | 72 | 48 | 78 | 45 |
| 22... | 90 | 51 | 89 | 58 | 84 | 48 | 90 | 52 | 86 | 58 | 89 | 49 | 86 | 57 | 86 | 47 | 90 | 47 | 89 | 47 | 86 | 54 | 84 | 55 | 81 | 48 | 82 | 44 |
| 23... | 87 | 52 | 89 | 57 | 85 | 48 | 89 | 56 | 85 | 57 | 85 | 52 | 86 | 63 | 93 | 52 | 90 | 54 | 87 | 54 | 86 | 55 | 85 | 59 | 86 | 59 | 90 | 65 |
| 24... | 90 | 54 | 87 | 64 | 87 | 51 | 88 | 59 | 84 | 58 | 87 | 56 | 83 | 56 | 93 | 51 | 87 | 48 | 88 | 57 | 83 | 61 | 82 | 61 | 87 | 59 | 92 | 52 |
| 25... | 92 | 54 | 87 | 64 | 87 | 51 | 89 | 60 | 87 | 60 | 90 | 56 | 92 | 41 | 89 | 52 | 81 | 47 | 87 | 58 | 83 | 59 | 83 | 62 | 80 | 60 | 89 | 50 |
| 26... | 88 | 56 | 84 | 63 | 82 | 53 | 85 | 60 | 81 | 59 | 83 | 56 | 82 | 62 | 91 | 49 | 88 | 45 | 84 | 57 | 83 | 56 | 82 | 62 | 85 | 55 | 88 | 48 |
| 27... | 86 | 54 | 83 | 62 | 82 | 44 | 84 | 61 | 84 | 60 | 86 | 49 | 85 | 50 | 92 | 53 | 87 | 56 | 85 | 59 | 84 | 41 | 82 | 64 | 86 | 57 | 90 | 54 |
| 28... | 83 | 60 | 82 | 61 | 80 | 49 | 84 | 59 | 79 | 59 | 80 | 52 | 79 | 60 | 90 | 54 | 86 | 48 | 85 | 57 | 83 | 54 | 82 | 60 | 84 | 57 | 88 | 54 |
| 29... | 71 | 59 | 79 | 55 | 75 | 49 | 77 | 59 | 72 | 56 | 77 | 52 | 73 | 58 | 84 | 62 | 80 | 54 | 73 | 53 | 73 | 58 | 70 | 52 | 82 | 65 | 84 | 63 |
| 30... | 69 | 39 | 64 | 50 | 64 | 24 | 65 | 50 | 62 | 43 | 65 | 40 | 62 | 38 | 80 | 60 | 80 | 57 | 63 | 51 | 75 | 55 | 61 | 50 | 81 | 65 | 82 | 65 |
| 31... | 70 | 36 | 68 | 47 | 69 | 28 | 68 | 46 | 68 | 39 | 72 | 36 | 69 | 23 | 66 | 54 | 65 | 48 | 65 | 43 | 64 | 47 | 61 | 46 | 70 | 52 | 78 | 51 |
| Mns | 76.0 | 42.8 | 78.2 | 51.1 | 74.6 | 39.5 | 76.5 | 47.7 | 73.6 | 47.4 | 76.5 | 42.6 | 76.6 | 42.3 | 76.5 | 42.5 | 72.3 | 39.1 | 71.8 | 43.4 | 73.0 | 42.5 | 68.6 | 46.5 | 71.6[b] | 44.7[b] | 77.1 | 44.8 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 7*—Continued.

| Date. | Tennessee. | | | | Arkansas. | | | | | | | | | | | | | | | | | | Mississippi. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Memphis. | | Union City | | Bentonville. | | Corning. | | Dardanelle. ‡‡ | | Eldorado. ‡‡ | | Fort Smith. | | Little Rock. | | Pine Bluff. ‡‡ | | Texarkana. ‡‡ | | Wynne. ‡‡ | | Clarksdale. ‡‡ | | Corinth. ‡‡ | | Greenville. ‡‡ | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 68 | 43 | 63 | 32 | 62 | 42 | 59 | 33 | 67 | 35 | 61 | 43 | 67 | 45 | 60 | 44 | 61 | 40 | 68 | 42 | 64 | 36 | ..... | ..... | 68 | 40 | 67 | 43 |
| 2... | 69 | 43 | 70 | 38 | 74 | 38 | 70 | 36 | 75 | 48 | 72 | 42 | 75 | 43 | 74 | 44 | 71 | 38 | 74 | 43 | 69 | 40 | ..... | ..... | 72 | 48 | 73 | 40 |
| 3... | 78 | 53 | 78 | 41 | 78 | 45 | 77 | 40 | 80 | 48 | 80 | 42 | 80 | 46 | 80 | 51 | 82 | 40 | 79 | 44 | 79 | 40 | ..... | ..... | 80 | 40 | 81 | 42 |
| 4... | 79 | 60 | 82 | 44 | 79 | 53 | 81 | 45 | 84 | 40 | 80 | 42 | 81 | 50 | 80 | 57 | 83 | 42 | 80 | 47 | 81 | 43 | ..... | ..... | 84 | 41 | 84 | 44 |
| 5... | 78 | 62 | 82 | 50 | 80 | 53 | 81 | 49 | 84 | 42 | 80 | 42 | 82 | 53 | 80 | 56 | 82 | 45 | 81 | 52 | 80 | 46 | ..... | ..... | 82 | 46 | 82 | 48 |
| 6... | 79 | 58 | 80 | 55 | 71 | 43 | 80 | 59 | 82 | 52 | 80 | 52 | 78 | 54 | 83 | 58 | 85 | 50 | 82 | 53 | 81 | 53 | ..... | ..... | 82 | 54 | 81 | 52 |
| 7... | 64 | 45 | 65 | 35 | 65 | 32 | 69 | 37 | 69 | 36 | 70 | 52 | 68 | 45 | 64 | 47 | 60 | 45 | 68 | 53 | 63 | 36 | ..... | ..... | 64 | 43 | 70 | 50 |
| 8... | 70 | 50 | 67 | 34 | 72 | 42 | 68 | 37 | 76 | 36 | 82 | 47 | 76 | 48 | 77 | 51 | 82 | 43 | 75 | 51 | 72 | 38 | ..... | ..... | 70 | 37 | 84 | 47 |
| 9... | 58 | 43 | 64 | 38 | 54 | 34 | 65 | 39 | 53 | 43 | 78 | 47 | 62 | 44 | 61 | 41 | 70 | 50 | 76 | 51 | 55 | 51 | ..... | ..... | 60 | 39 | 79 | 60 |
| 10... | 48 | 38 | 55 | 36 | 50 | 34 | 51 | 35 | 53 | 38 | 46 | 42 | 56 | 39 | 52 | 37 | 52 | 40 | 49 | 42 | 50 | 38 | ..... | ..... | 42 | 40 | 45 | 44 |
| 11... | 59 | 39 | 61 | 29 | 63 | 30 | 61 | 29 | 67 | 32 | 63 | 35 | 65 | 36 | 64 | 38 | 65 | 34 | 65 | 36 | 60 | 29 | ..... | ..... | 62 | 32 | 63 | 37 |
| 12... | 59 | 44 | 58 | 38 | 67 | 32 | 63 | 36 | 70 | 32 | 70 | 35 | 72 | 41 | 65 | 45 | 65 | 40 | 72 | 39 | 77 | 29 | ..... | ..... | 61 | 34 | 68 | 39 |
| 13... | 78 | 48 | 76 | 40 | 77 | 47 | 77 | 46 | 83 | 45 | 80 | 38 | 83 | 42 | 83 | 45 | 84 | 42 | 81 | 42 | 80 | 37 | ..... | ..... | 76 | 35 | 82 | 35 |
| 14... | 60 | 41 | 63 | 37 | 57 | 37 | 74 | 39 | 64 | 43 | 65 | 40 | 63 | 48 | 65 | 48 | 62 | 43 | 68 | 42 | 58 | 43 | ..... | ..... | 54 | 39 | 65 | 49 |
| 15... | 50 | 34 | 51 | 27 | 58 | 29 | 56 | 28 | 57 | 34 | 59 | 38 | 59 | 39 | 53 | 38 | 58 | 36 | 60 | 42 | 52 | 29 | ..... | ..... | 50 | 29 | 57 | 36 |
| 16... | 62 | 38 | 65 | 29 | 63 | 41 | 66 | 38 | 66 | 34 | 65 | 33 | 61 | 42 | 64 | 38 | 69 | 38 | 64 | 40 | 64 | 29 | ..... | ..... | 62 | 25 | 64 | 27 |
| 17... | 66 | 49 | 70 | 45 | 65 | 40 | 70 | 45 | 69 | 40 | 64 | 35 | 67 | 49 | 67 | 52 | 66 | 50 | 62 | 41 | 69 | 41 | ..... | ..... | 70 | 28 | 69 | 36 |
| 18... | 68 | 54 | 71 | 42 | 69 | 46 | 71 | 45 | 70 | 44 | 65 | 50 | 68 | 52 | 66 | 51 | 68 | 45 | 55 | 52 | 70 | 48 | ..... | ..... | 70 | 44 | 72 | 50 |
| 19... | 64 | 51 | 72 | 47 | 67 | 47 | 70 | 44 | 68 | 44 | 74 | 45 | 67 | 49 | 63 | 49 | 70 | 43 | 66 | 50 | 66 | 42 | 72 | ..... | 69 | 46 | 78 | 45 |
| 20... | 76 | 52 | 77 | 47 | 77 | 51 | 77 | 52 | 82 | 44 | 77 | 49 | 77 | 50 | 78 | 46 | 80 | 42 | 78 | 47 | 76 | 45 | 79 | 45 | 76 | 46 | 81 | 49 |
| 21... | 72 | 54 | 76 | 46 | 79 | 47 | 75 | 48 | 79 | 49 | 83 | 52 | 80 | 56 | 76 | 56 | 81 | 53 | 80 | 55 | 77 | 48 | 80 | 50 | 76 | 46 | 84 | 56 |
| 22... | 80 | 53 | 82 | 48 | 86 | 54 | 85 | 48 | 88 | 49 | 86 | 51 | 87 | 54 | 86 | 59 | 87 | 46 | 86 | 53 | 84 | 47 | 85 | 50 | 80 | 55 | 86 | 53 |
| 23... | 85 | 64 | 89 | 59 | 85 | 59 | 90 | 56 | 88 | 54 | 90 | 51 | 87 | 57 | 87 | 61 | 91 | 54 | 89 | 57 | 88 | 50 | 89 | 54 | 87 | 56 | 91 | 54 |
| 24... | 86 | 68 | 88 | 53 | 83 | 61 | 88 | 64 | 89 | 60 | 86 | 52 | 84 | 62 | 85 | 60 | 90 | 56 | 86 | 59 | 87 | 56 | 88 | 56 | 90 | 54 | 89 | 61 |
| 25... | 84 | 66 | 80 | 58 | 84 | 60 | 86 | 57 | 87 | 50 | 86 | 51 | 86 | 60 | 85 | 57 | 88 | 52 | 85 | 56 | 88 | 57 | 87 | 58 | 88 | 53 | 87 | 54 |
| 26... | 84 | 66 | 87 | 50 | 82 | 57 | 87 | 56 | 87 | 54 | 86 | 53 | 82 | 58 | 83 | 58 | 88 | 54 | 85 | 57 | 86 | 54 | 87 | 56 | 87 | 52 | 88 | 54 |
| 27... | 85 | 68 | 87 | 57 | 82 | 63 | 87 | 64 | 87 | 62 | 84 | 53 | 83 | 66 | 84 | 63 | 83 | 54 | 84 | 58 | 86 | 59 | 87 | 57 | 88 | 54 | 89 | 53 |
| 28... | 83 | 68 | 86 | 53 | 81 | 57 | 87 | 56 | 88 | 52 | 84 | 53 | 83 | 59 | 84 | 61 | 88 | 52 | 84 | 58 | 84 | 55 | 81 | 57 | 85 | 56 | 87 | 54 |
| 29... | 80 | 66 | 81 | 61 | 69 | 55 | 83 | 61 | 78 | 60 | 78 | 54 | 76 | 59 | 78 | 66 | 81 | 53 | 77 | 60 | 82 | 64 | 82 | 60 | 82 | 57 | 87 | 60 |
| 30... | 74 | 60 | 79 | 65 | 62 | 53 | 79 | 68 | 73 | 54 | 75 | 64 | 65 | 55 | 75 | 59 | 80 | 53 | 74 | 66 | 78 | 65 | 80 | 64 | 82 | 62 | 83 | 65 |
| 31... | 61 | 55 | 67 | 53 | 63 | 45 | 68 | 57 | 70 | 54 | 70 | 58 | 66 | 51 | 70 | 55 | 75 | 54 | 67 | 55 | 79 | 56 | 70 | 60 | 73 | 54 | 78 | 59 |
| Mns | 71.2 | 52.7 | 73.3 | 44.7 | 71.1 | 46.0 | 74.2 | 46.7 | 75.3 | 45.4 | 74.8 | 46.5 | 73.7 | 50.1 | 73.3 | 51.3 | 75.7 | 46.0 | 74.2 | 49.8 | 73.7 | 45.3 | ..... | ..... | 72.3 | 44.7 | 77.2 | 48.3 |

| Date. | Mississippi. | | | | | | Louisiana. | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Kosciusko. ‡‡ | | Natchez. ‡‡ | | Vicksburg. | | Alexandria. ‡‡ | | Baton Rouge. ‡‡ | | Covington. ‡‡ | | Lafayette. ‡‡ | | Lake Charles. ‡‡ | | Monroe. ‡‡ | | New Orleans. | | Robeline. ‡‡ | | Schriever. ‡‡ | | Shreveport. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1..... | 72 | 48 | 73 | 48 | 69 | 49 | 75 | 50 | 75 | 59 | 78 | 57 | 75 | 54 | 79 | 50 | 66 | 46 | 75 | 59 | 73 | 44 | ..... | ..... | 70 | 49 |
| 2..... | 73 | 51 | 74 | 50 | 73 | 50 | 75 | 45 | 74 | 51 | 79 | 55 | 75 | 51 | 77 | 49 | 78 | 47 | 73 | 58 | 72 | 40 | ..... | ..... | 73 | 48 |
| 3..... | 79 | 44 | 83 | 50 | 80 | 54 | 80 | 45 | 78 | 55 | 84 | 52 | 80 | 51 | 80 | 49 | 86 | 45 | 78 | 59 | 82 | 40 | ..... | ..... | 78 | 50 |
| 4..... | 82 | 44 | 87 | 52 | 81 | 53 | 83 | 46 | 81 | 54 | 85 | 49 | 93 | 50 | 84 | 49 | 87 | 45 | 80 | 61 | 83 | 41 | ..... | ..... | 80 | 55 |
| 5..... | 79 | 47 | 86 | 53 | 80 | 61 | 84 | 47 | 83 | 55 | 86 | 48 | 83 | 50 | 86 | 48 | 84 | 48 | 81 | 63 | 84 | 45 | ..... | ..... | 80 | 56 |
| 6..... | 80 | 47 | 85 | 56 | 82 | 58 | 83 | 49 | 79 | 54 | 85 | 49 | 82 | 50 | 84 | 50 | 85 | 51 | 82 | 62 | 83 | 46 | ..... | ..... | 81 | 56 |
| 7..... | 67 | 50 | 77 | 57 | 71 | 58 | 83 | 52 | 80 | 57 | 82 | 50 | 81 | 57 | 84 | 54 | 76 | 55 | 79 | 60 | 81 | 49 | ..... | ..... | 74 | 56 |
| 8..... | 79 | 44 | 84 | 57 | 80 | 55 | 82 | 53 | 79 | 56 | 81 | 49 | 80 | 58 | 81 | 56 | 83 | 51 | 81 | 56 | 83 | 50 | ..... | ..... | 81 | 57 |
| 9..... | 73 | 46 | 82 | 57 | 77 | 58 | 80 | 52 | 80 | 55 | 82 | 56 | 81 | 58 | 82 | 50 | 80 | 51 | 81 | 56 | 80 | 57 | ..... | ..... | 78 | 60 |
| 10..... | 50 | 50 | 64 | 59 | 67 | 45 | 64 | 58 | 73 | 58 | 81 | 59 | 74 | 61 | 79 | 51 | 59 | 50 | 79 | 55 | 56 | 56 | ..... | ..... | 66 | 42 |
| 11..... | 60 | 30 | 64 | 43 | 60 | 41 | 65 | 45 | 60 | 42 | 69 | 48 | 66 | 45 | 73 | 40 | 68 | 38 | 63 | 50 | 64 | 31 | ..... | ..... | 63 | 39 |
| 12..... | 66 | 35 | 73 | 41 | 68 | 47 | 74 | 40 | 73 | 44 | 76 | 39 | 74 | 41 | 78 | 39 | 78 | 39 | 70 | 52 | 75 | 34 | ..... | ..... | 72 | 46 |
| 13..... | 76 | 34 | 83 | 42 | 78 | 48 | 81 | 39 | 79 | 46 | 78 | 39 | 80 | 41 | 83 | 41 | 83 | 42 | 74 | 52 | 84 | 35 | ..... | ..... | 80 | 50 |
| 14..... | 62 | 46 | 70 | 42 | 66 | 51 | 74 | 45 | 72 | 53 | 79 | 40 | 76 | 48 | 82 | 46 | 75 | 50 | 74 | 57 | 73 | 42 | ..... | ..... | 70 | 53 |
| 15..... | 53 | 32 | 59 | 40 | 57 | 42 | 64 | 41 | 59 | 45 | 65 | 44 | 64 | 45 | 80 | 45 | 66 | 41 | 59 | 48 | 63 | 36 | ..... | ..... | 62 | 44 |
| 16..... | 62 | 25 | 67 | 34 | 62 | 37 | 64 | 33 | 67 | 38 | 67 | 30 | 67 | 33 | 79 | 36 | 70 | 34 | 62 | 42 | 65 | 31 | ..... | ..... | 62 | 42 |
| 17..... | 69 | 27 | 69 | 36 | 68 | 50 | 67 | 34 | 72 | 46 | 79 | 32 | 73 | 37 | 78 | 43 | 69 | 35 | 67 | 49 | 65 | 32 | ..... | ..... | 63 | 53 |
| 18..... | 69 | 27 | 71 | 47 | 68 | 53 | 68 | 48 | 74 | 52 | 74 | 41 | 76 | 51 | 77 | 42 | 63 | 50 | 74 | 54 | 69 | 48 | ..... | ..... | 56 | 47 |
| 19..... | 72 | 43 | 83 | 49 | 76 | 55 | 80 | 44 | 78 | 54 | 78 | 46 | 80 | 48 | 79 | 49 | 78 | 46 | 74 | 56 | 82 | 42 | ..... | ..... | 73 | 50 |
| 20..... | 78 | 46 | 82 | 50 | 78 | 55 | 82 | 44 | 80 | 56 | 82 | 43 | 80 | 48 | 85 | 50 | 81 | 48 | 79 | 56 | 82 | 43 | ..... | ..... | 80 | 57 |
| 21..... | 79 | 51 | 88 | 58 | 80 | 59 | 87 | 52 | 83 | 57 | 84 | 48 | 85 | 52 | 87 | 49 | 86 | 54 | 79 | 60 | 87 | 42 | ..... | ..... | 84 | 60 |
| 22..... | 82 | 49 | 88 | 60 | 82 | 60 | 90 | 52 | 81 | 59 | 85 | 52 | 87 | 55 | 90 | 50 | 88 | 54 | 83 | 62 | 88 | 51 | ..... | ..... | 86 | 58 |
| 23..... | 86 | 51 | 92 | 59 | 86 | 61 | 90 | 53 | 80 | 60 | 86 | 54 | 86 | 57 | 89 | 51 | 90 | 54 | 84 | 62 | 90 | 58 | ..... | ..... | 88 | 60 |
| 24..... | 87 | 50 | 91 | 60 | 86 | 65 | 72 | 54 | 82 | 62 | 88 | 55 | 86 | 58 | 90 | 50 | 88 | 54 | 84 | 63 | 86 | 59 | ..... | ..... | 84 | 62 |
| 25..... | 86 | 52 | 90 | 59 | 85 | 63 | 72 | 50 | 83 | 63 | 85 | 56 | 87 | 52 | 89 | 51 | 87 | 56 | 81 | 67 | 82 | 50 | ..... | ..... | 84 | 57 |
| 26..... | 86 | 52 | 88 | 58 | 83 | 65 | 85 | 50 | 84 | 64 | 86 | 54 | 87 | 53 | 87 | 50 | 84 | 56 | 82 | 65 | 86 | 49 | ..... | ..... | 85 | 59 |
| 27..... | 84 | 53 | 89 | 59 | 84 | 64 | 85 | 51 | 82 | 65 | 86 | 53 | 87 | 55 | 90 | 50 | 85 | 56 | 82 | 66 | 84 | 50 | ..... | ..... | 83 | 58 |
| 28..... | 88 | 57 | 91 | 57 | 87 | 63 | 86 | 52 | 85 | 63 | 86 | 55 | 87 | 52 | 87 | 54 | 86 | 57 | 83 | 67 | 86 | 50 | ..... | ..... | 84 | 59 |
| 29..... | 86 | 59 | 89 | 59 | 82 | 65 | 85 | 53 | 84 | 65 | 76 | 57 | 81 | 57 | 86 | 53 | 82 | 57 | 79 | 64 | 86 | 50 | ..... | ..... | 78 | 62 |
| 30..... | 81 | 59 | 87 | 65 | 82 | 65 | 79 | 64 | 81 | 67 | 81 | 64 | 81 | ..... | 82 | 59 | 82 | 65 | 77 | 64 | 77 | 64 | ..... | ..... | 78 | 60 |
| 31..... | 81 | 50 | 83 | 63 | 78 | 59 | 81 | 61 | 82 | 60 | 83 | 58 | 84 | ..... | 85 | 58 | 80 | 61 | 77 | 62 | 74 | 59 | ..... | ..... | 70 | 59 |
| Means..... | 75.1 | 45.1 | 80.2 | 52.3 | 76.0 | 55.1 | 78.1 | 48.4 | 77.5 | 55.3 | 80.5 | 49.4 | 79.9 | 50.6[b] | 83.0 | 48.8 | 79.1 | 49.5 | 76.6 | 58.3 | 78.2 | 45.9 | ..... | ..... | 75.7 | 53.7 |

# Climatological Data for March, 1910.
## DISTRICT No. 8, TEXAS AND RIO GRANDE VALLEY.

BERNARD BUNNEMEYER, District Editor.

### GENERAL SUMMARY.

The month was characterized throughout the district by remarkably warm weather, generally deficient precipitation, and a large number of pleasant, sunshiny days. It was the warmest March on record in Colorado and New Mexico, while in Texas there were but 2 years since 1891 in which March was warmer. Precipitation was mostly local in character and occurred during the second decade and during the latter half of the third decade. The monthly amounts were less than the normal in the greater portion of the district. A nominal excess occurred in a few localities in Colorado and New Mexico, and a conspicuous excess in many of the west-central, southwestern, and southern counties of Texas, due to unusually heavy rains on the last 2 days of the month. The greatest monthly amount in Texas was 6.17 inches at Kerrville, and the next greatest, 5.68 inches at Fredericksburg. In Colorado and New Mexico the greatest monthly amounts were 1.31 and 1.22 inch, respectively. There was practically no precipitation at 13 stations in New Mexico and 3 in Texas, while at 13 other stations in New Mexico and 1 in Texas the monthly amounts did not exceed 0.10 inch.

Excessive precipitation of 2.50 inches or more in 24 consecutive hours occurred at the following Texas stations: Alvin, 2.57; Beeville, 4.10; Boerne, 2.80; Fairland, 4.58; Fort Clark, 3.00; Fredericksburg, 4.02; Kerrville, 6.05; Lampasas, 3.73; and Marble Falls, 3.74 inches. The heaviest monthly snowfall was 17 inches in Colorado and 18 inches in New Mexico. There was no snow in Texas, except traces in a few western localities. The number of days with 0.01 inch or more precipitation averaged only 2 in New Mexico and 3 in Colorado and Texas.

The wind movement was comparatively light, although high winds occurred on several days, especially from the 25th to the 29th, and during this period sandstorms were numerous in New Mexico and in western Texas. At El Paso the wind attained a velocity of 57 miles per hour from the west on the 28th.

### TEMPERATURE.

The mean temperature was above the normal throughout the district, the daily excess ranging from about 3° on the Gulf coast to over 7° in northern Texas and in Colorado. There was very little change in temperature from day to day, although a cool period occurred from the 9th to the 13th, and in the northern portion of the district also from the 29th to the 31st. The extreme temperatures reported were: In Colorado, 72° at Saguache on the 5th and other dates, and −1° at Wagon Wheel Gap on the 11th; in New Mexico, 93° at Carlsbad on the 6th, and zero at Hopewell on the 30th; and in Texas, 97° at Barstow on the 23d and other dates, and 24° at Claytonville on the 2d and at Mount Blanco on the 11th. The local monthly means ranged from 31.0° to 45.3° in Colorado; from 31.6° to 61.3° in New Mexico; and from 55.9° to 72.5° in Texas.

### PRECIPITATION.

The precipitation over the greater stretch of the Rio Grande watershed was deficient. A slight excess occurred over the extreme upper portion and at a few widely separated localities in New Mexico; and a marked excess over a short stretch from Del Rio to Fort McIntosh, Tex. The deficiency in Colorado averaged 0.12 inch, and in New Mexico, 0.34 inch. In Texas the precipitation was deficient over the greater portion of the watershed, but the average exceeded the normal by 0.36 inch, due to heavy rains just south of Del Rio. The snowfall in the mountains and upper valleys reached a maximum depth of 17 inches at Cumbres, Col., and of 18 inches at Red River Canyon, N. Mex. There was no snow south of Cloudcroft.

There was a general deficiency of precipitation over the Rio Pecos watershed, which averaged 0.39 inch in New Mexico and 0.48 inch in Texas. The snowfall was light, although at Harveys Upper Ranch it attained a depth of 15.5 inches. In both the Rio Pecos and Rio Grande watersheds a large number of stations had practically no precipitation.

In the Texas watersheds, the precipitation exceeded the normal from the Nueces to the Colorado, but was decidedly deficient from the Brazos to the Sabine, and in the coastal plains.

In general, the area of greatest precipitation extended over the upper portions of the Nueces, San Antonio, and Guadalupe, and over the middle portions of the Colorado and Brazos, the amounts ranging from 3 to over 4 inches. Less than 1 inch occurred over the upper portions of the Colorado, Brazos, and Trinity. The following are the average monthly amounts in inches for the various watersheds: Nueces, 1.06; San Antonio, 2.27; Guadalupe, 1.90; Lavaca, 1.76; Colorado, 2.23; Brazos, 1.66; Trinity, 1.28; Neches, 1.47; Sabine, 1.96; and coastal plains, 1.58 inch.

### RIVER CONDITIONS.

Most of the rivers of the district maintained an even flow, but carried slightly smaller volumes of water than during the preceding month. The Sabine, which was rising at the close of February, attained a maximum stage of 18.5 feet at Logansport, and in consequence, its average depth was nearly 2 feet greater than during the preceding month. The Rio Grande rose 2.5 feet at Eagle Pass on the last day of the month. It was abnormally low at Zapata, except during a few days following the rains of the 19th, when it was about normal. At Llano Grande, farther below, there was a rise of 6 feet from the 20th to the 25th. The water was ample for irrigation and for stock. Sharp rises occurred on the last day of the month in the extreme upper Guadalupe and Nueces rivers. The Medina, which empties into the San Antonio, rose 15 feet and washed away some engines and machinery used in building a bridge. The damage was about $1,000.

The following has been taken from the Reclamation Record for April, 1910:

*New Mexico, Hondo Project.*—During March there has been no water in the river and none available for irrigation.

*New Mexico, Leasburg Project.*—During March about 275 second-feet of water have been diverted through the canal and delivered to the community ditches for irrigation purposes. The discharge of the river has been somewhat above normal during the entire month, giving plenty of water for all purposes.

### SNOWFALL IN THE MOUNTAINS.

Mr. F. H. Brandenburg, Section Director, Colorado Section, reports:

The amount of snow in the mountains at the close of March was much less than the normal on all watersheds. In the mountains, in common with the plains region, the weather conditions during last month differed greatly from those that are usual in March. There were few storms, with a corresponding light snowfall. Bright sunshine and unusual warmth during the greater part of the month melted the snow covering of the higher valleys and unprotected slopes. The attending run-off, much of which was not utilized, would, under normal temperature conditions, have been delayed until April and May. However, melting has not yet begun at the very high altitudes, and only in a moderate degree in the timber and on northern slopes.

Mr. C. E. Linney, Section Director, New Mexico Section, reports:

March was unusually warm and the snowfall was light; it was confined almost entirely to the higher mountains of the northern half of the Territory. The snow melted rapidly during the month and the streams carried an increased volume of water until toward the close when a cold period checked the melting.

In the higher altitude of the Rio Grande drainage area there is an abundance of well-packed snow; in some places it is in drifts 10 feet or more in depth, and in many places it is frozen and almost solid ice and consequently will melt slowly. There will be sufficient water for irrigation in the Rio Grande Valley during the coming season.

In the upper Pecos there is enough stored snow in the canyons of the higher mountains to assure a fair water supply for the districts depending upon water from the mountains within the Pecos National Forest Reserve.

### MISCELLANEOUS.

Severe wind and sandstorms on the 28th caused considerable damage to vegetation in New Mexico. In many localities fences and signs were blown down, leaves badly whipped, awnings and windows damaged, and the interior of dwellings covered with a thick layer of dust.

Experiments have been made in the vicinity of Socorro, N. Mex., with irrigation by means of windmills and electric pumping stations, and the results have been so satisfactory that an extension of the system is contemplated.

A company known as "The Pecos Development Company" has been incorporated with headquarters at Estancia, N. Mex. This company intends to develop the Estancia Valley which contains more than 200,000 acres that can be irrigated by wells. The plan is to contract with farmers for drilling wells and installing pump motors.

The city of Austin, Tex., is taking steps to rebuild the dam across the Colorado River. The proposition of rebuilding was favored by an overwhelming vote recently taken in that city. The old dam, part of which is still standing, was broken by a flood on April 7, 1900. It was 1,250 feet long and 60 feet high and cost about $1,000,000.

The Calallen Riverside Irrigation Association contemplates the creation of an irrigation district west of Sharpsburg on the Nueces River, and it has received its charter from the State of Texas.

### IRRIGATION IN TEXAS.

Under the law of April 29, 1909, enacted by the 31st Legislature of the State of Texas, it became the duty of the commissioner of agriculture of the State to inquire into the system of irrigation now in operation in the State and to submit an annual report on the subject with such recommendations as he may deem beneficial to the industry. The law was given in full in the report of the 8th Climatological District for October, 1909. Under its requirements the commissioner of agriculture has compiled a list of canal companies, as complete as practicable, from records of charters in the office of the Secretary of State at Austin, by means of correspondence and otherwise, together with much other valuable information relating to the subject.

Through the courtesy of the Commissioner of Agriculture, of Texas, this office has been furnished a record of 86 different canal companies, their location, names of principal officers, authorized capitalization, mileage of water service, acreage watered, rates charged, patrons served, etc., and we are indebted to his office for the information hereinafter given:

*Adams Bayou Canal Company, Orange.*—Location, Orange County, near Orange post-office; aggregate acres served, 4,000; additional acreage that could be served by contemplated equipment, 2,500.

*American Rio Grande Land and Irrigation Company, Mercedes.*—Location, Hidalgo County, near Mercedes; aggregate acres served, 20,000; additional acreage that could be served by present equipment, 80,000. Laterals are being extended to water 15,000 more acres.

*Arno Cooperative Irrigation Company, Arno.*—Location, Reeves County, near Arno post-office; aggregate acres served, 15,000; additional acreage that could be served by contemplated equipment, 3,500.

*Barstow Irrigation Company, Barstow, Ward County.*

*Beaumont Irrigation Company, Beaumont, Jefferson County.*

*Beaumont Rice and Canal Company, Beaumont.*—Location, Jefferson County, near Beaumont; aggregate acres served, 930; additional acreage that could be supplied by present equipment, about 300; contemplated improvements would enable the company to sell water for about 2,000 acres and water 1,000 more of its own.

*Big Valley Canal and Irrigation Company, Big Valley, Mills County.*

*Big Valley Irrigation Company, Barstow, Ward County.*

*Brownsville Irrigation Company, Brownsville.*—Location, Cameron County, near Brownsville and Olmito post-offices; aggregate acres served, 6,000; additional acreage that could be supplied by present equipment, 6,000; additional acreage that could be supplied by contemplated equipment, 40,000.

*Cane and Rice Belt Irrigation Company, Houston.*—Location, Fort Bend and Harris counties, near Fulshear, Gaston, and Clodine post-offices; aggregate acres served in 1909, 11,750; additional acreage that could be supplied by present equipment, about 8,000.

*Central Irrigation Company, Bay City, Matagorda County.*

*Collegeport Canal Company, Collegeport.*

*Colorado Canal Company, Bay City, Matagorda County.*

*Comanche Irrigation Ditch Company, Batesville.*—Location, Zavalla County, near Batesville post-office; aggregate acres served, 500; additional acreage that could be supplied by present equipment, 200; additional acreage that could be served by contemplated equipment, 700.

*Cove Irrigation Company, El Campo, Wharton County.*

*Cooperative Canal Company, Blessing.*—Location, Matagorda County, near Blessing post-office; aggregate acres served, 4,000; additional acreage that could be supplied by present equipment, 6,000; additional acreage that could be supplied by contemplated equipment, 12,000.

*Cow Bayou Canal Company, Orange, Orange County.*

*Del Monte Irrigation Company, Mission.*—Location, Hidalgo County, near Mission and Abram postoffices; aggregate acres served, 1,500; additional acreage that could be supplied by present equipment, 2,500; additional acreage that could be served by contemplated equipment, 2,500.

*Eagle Lake Rice Irrigation Company.*

*Farmers' Canal Company, Stowell, Chambers County.*

*Fort Stockton Irrigated Lands Company, Fort Stockton, Tex., and Kansas City, Mo.*—Location, Pecos County, near Fort Stockton post-office; aggregate acres served, 30,000; additional acreage that could be supplied by present equipment, 15,000. The noted Comanche Springs, at Fort Stockton, in Pecos County, Texas, have been a prominent feature in the frontier life of western Texas for more than 50 years. They break out in the midst of a fertile plain and afford more than 80 cubic feet of water per second of time. An army post was located at these springs before the Civil War, yet it was not until after that war and about the year 1870 that this water was used for irrigation. It was then utilized almost solely for the purpose of irrigating land used in supplying Fort Stockton and other army posts with corn, oats, and other food for consumption of horses and men. The surrounding country was uninhabited. It was not until about 1877 that the first herd of cattle was established near the fort. In 1881 the two transcontinental railroads—the Texas Pacific and the Southern Pacific—were built through western Texas; but the one was carried 52 miles north and the other 60 miles south of Fort Stockton, so that neither road gave the place the advantage of direct communication with the outside world. Slowly, however, the gradual settlement of the country radiated out of these roads, and by 1886 the Stockton country became fairly well stocked with cattle. In that year the fort was abandoned as a military post, and farming by irrigation from that time onward became dependent upon the needs of the cattlemen alone for its success, and their needs were slight. The springs and the land were owned by a large cattle company and for many years irrigation

was carried on in a perfunctory sort of way on leases from the cattle company But it was carried on, nevertheless, and has remained in constant exercise from its inception in 1870 to the present time. About the year 1907 the country about Fort Stockton began to settle up under the stimulus of the demand for school lands. The Orient Railway was planned to be built through the town. The demand for lands was becoming greater and the development of the country began by the setting on foot of various irrigation enterprises on the Pecos River and other places in the vicinity. In 1909 the Fort Stockton Irrigated Lands Company was organized and bought up some 52,000 acres of land lying within the reach of the springs and at the same time bought out all the rights to the use of the water. The land is now subdivided into 10-acre tracts and is rapidly being settled by homeseekers. The water is especially valuable for irrigation, as it comes out of the ground warm and consequently will not retard the growth of crops like cold water. A record for more than 50 years shows that the flow of these springs is constant. It is known with accuracy just how much water can be delivered to each tract every year, and the source of water does not appear to depend on rain or melting snow in the mountains.

*Gravity Irrigation Company, San Juan.*—Location, near Rio Grande City, Garcias, Sam Fordyce, Mission, McAllen, San Juan, and Donna post-offices; aggregate acres served, about 250,000; additional acreage that could be supplied by present equipment, 100,000 when fully equipped.

*(To be continued.)*

TABLE 1.—*Climatological data for March, 1910. District No. 8, Texas and Rio Grande Valley.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Colorado.* | | | | | | | | | | | | | | | | | | | | |
| Blanca | Costilla | 8,403 | 1 | 38.6 | ..... | 66 | 6† | 9 | 30 | 49 | 0.68 | ..... | 0.55 | 6.3 | 4 | 24 | 7 | 0 | sw. | L. C. Audrain. |
| Cumbres | Conejos | 10,015 | 3 | | | | | | | | 1.31 | ..... | 0.98 | 17.0 | 2 | 23 | 3 | 5 | sw. | Ida M. Lively. |
| Garnett | Costilla | 7,576 | 17 | 40.0 | + 7.8 | 66 | 5† | 15 | 31 | 45 | 0.27 | + 0.02 | 0.21 | 4.0 | 2 | 24 | 3 | 4 | w. | Chas. Speiser. |
| Hermit | Hinsdale | 9,843 | | | | | | | | | 0.93 | ..... | 0.41 | 11.4 | 5 | 20 | 7 | 4 | ..... | Marion Mason. |
| La Veta Pass | Costilla | 9,000 | | | | | | | | | 1.25 | ..... | 0.80 | 9.2 | 2 | 18 | 9 | 4 | w. | Norvin R. Lively. |
| Manassa | Conejos | 7,700 | 4 | 39.4[a] | ..... | 66[a] | 20 | 6[a] | 29 | 53[a] | T. | ..... | T. | T. | 0 | 12[a] | 17[a] | 1[a] | sw. | J. B. Chapman. |
| Platoro | do | 9,675 | 2 | | | | | | | | 0.72 | ..... | 0.29 | 10.6 | 7 | 22 | 5 | 4 | sw. | Walter R. Hook. |
| Saguache | Saguache | 7,740 | 18 | 45.3 | +11.2 | 72 | 5† | 14 | 31 | 50 | 0.42 | + 0.23 | 0.42 | 4.2 | 1 | 20 | 5 | 6 | w. | Eugene Williams. |
| San Luis | Costilla | 7,794 | 19 | 41.3 | + 7.1 | 68 | 21 | 11 | 30 | 46 | 0.82 | + 0.08 | 0.77 | 8.2 | 2 | 21 | 8 | 2 | sw. | P. B. Albright. |
| Wagon Wheel Gap | Mineral | 8,434 | 11 | 31.0 | + 4.6 | 65 | 18 | − 1 | 11 | 58 | 0.50 | − 0.81 | 0.30 | 7.0 | 4 | 24 | 3 | 4 | n. | Ellwood Bergey. |
| *New Mexico.* | | | | | | | | | | | | | | | | | | | | |
| Agricultural College | Dona Ana | 3,863 | 44 | 58.2 | + 4.7 | 85 | 6† | 32 | 2† | 47 | 0.33 | + 0.05 | 0.33 | 0.0 | 1 | 20 | 11 | 0 | sw. | New Mexico Agri. College. |
| Alamogordo (near) | Otero | 4,338 | 9 | 58.0 | ..... | 84 | 23† | 31 | 12 | 40 | 0.20 | ..... | 0.20 | 0.0 | 1 | 18 | 10 | 3 | sw. | Geo. C. Bemis. |
| Alamogordo | do | 4,320 | | | | | | | | | 0.15 | ..... | 0.15 | 0.0 | 1 | | | | ..... | El Paso & Southwest. R. R. |
| Albuquerque | Bernalillo | 5,200 | 34 | 54.6 | + 7.2 | 80 | 19 | 28 | 11 | 43 | 0.30 | + 0.09 | 0.23 | 0.0 | 3 | 18 | 12 | 1 | s. | University of New Mexico. |
| Ancho | Lincoln | 6,112 | | | | | | | | | T. | ..... | T. | T. | 0 | 19 | 3 | 9 | ..... | El Paso & Southwest. R. R. |
| Artesia | Eddy | 3,350 | | 59.0 | ..... | 91 | 25 | 30 | 12 | 52 | 0.01 | ..... | 0.01 | 0.0 | 1 | 17 | 7 | 7 | se. | Will Benson. |
| Aspen Grove Ranch | Rio Arriba | 9,000 | | | | | | | | | 0.93 | ..... | 0.25 | 10.7 | 6 | 19 | 7 | 5 | ..... | Junius D. Maupin. |
| Bateman's Ranch | do | 8,900 | | | | | | | | | 0.63 | ..... | 0.40 | 6.5 | 3 | 21 | 5 | 5 | w. | John W. Bateman. |
| Bluewater | Valencia | 6,732 | 8 | 43.6 | ..... | 76 | 4 | 15 | 31 | 56 | T. | − 0.72 | T. | T. | 0 | 12 | 13 | 6 | s. | Bluewater Development Co. |
| Bluewater Reservoir | do | 9,000 | 1 | | | | | | | | | | | | | | | | ..... | Do. |
| Boaz | Chaves | 4,154 | 1 | 53.6 | ..... | 84 | 23 | 22 | 12 | 52 | 0.06 | ..... | 0.06 | 0.0 | 1 | 23 | 7 | 1 | w. | D. C. Savage. |
| Capitan | Lincoln | 6,348 | | | | | | | | | 0.10 | ..... | 0.10 | 1.0 | 2 | 23 | 3 | 5 | s. | El Paso & Southwest. R. R. |
| Carlsbad | Eddy | 3,120 | 15 | 61.3 | + 4.4 | 93 | 6 | 32 | 2 | 57 | 0.04 | − 0.38 | 0.02 | 0.0 | 2 | 22 | 6 | 3 | se. | U. S. Reclamation Service. |
| Carrizozo | Lincoln | 5,429 | 2 | | | | | | | | 0.00 | ..... | 0.00 | 0.0 | 0 | 31 | 0 | 0 | sw. | A. H. Harvey. |
| Chama | Rio Arriba | 7,851 | 11 | 38.7 | + 4.6 | 68 | 21 | 8 | 30 | 40 | 1.22 | − 1.34 | 0.84 | 16.5 | 4 | 26 | 1 | 4 | sw. | Frank C. Johnson. |
| Cloudcroft | Otero | 8,650 | 7 | 47.8 | ..... | 70 | 12† | 20 | 28 | 42 | 0.30 | ..... | 0.23 | 3.5 | 2 | 15 | 13 | 3 | w. | El Paso & Southwest. R. R. |
| Corona | Lincoln | 6,666 | | | | | | | | | 0.35 | ..... | 0.35 | 2.0 | 1 | 19 | 5 | 7 | n. | Do. |
| Coyote | do | 5,800 | | | | | | | | | 0.20 | ..... | 0.20 | 0.0 | 1 | 16 | 2 | 13 | sw. | Do. |
| Cundiyo | Santa Fe | 6,889 | 1 | | | | | | | | 0.32 | ..... | 0.25 | 0.0 | 3 | 17 | 7 | 7 | w. | Teofilo Vijil. |
| Demonstration Farm | San Miguel | 6,800 | 1 | | | | | | | | 0.46 | ..... | 0.31 | | 2 | | | | ..... | Erb & Westerman. |
| Duran | Torrance | 6,272 | 1 | | | | | | | | T. | ..... | T. | 0.0 | 0 | 25 | 0 | 6 | ..... | W. H. Birkhead. |
| Edison Mine | Taos | 10,600 | | | | | | | | | | | | | | | | | ..... | Frank L. Paxton. |
| Elida | Roosevelt | 4,345 | | | | | | | | | 0.01 | ..... | 0.01 | 0.0 | 1 | 16 | 12 | 3 | s. | M. W. Waldron. |
| Elk (near) | Chaves | | 11 | 53.1 | + 4.0 | 85 | 6 | 26 | 12† | 47 | T. | − 0.45 | T. | T. | 0 | 20 | 9 | 2 | sw. | Boyd Williams. |
| Escondido | Otero | 4,014 | | | | | | | | | 0.80 | ..... | 0.50 | 0.0 | 1 | 14 | 11 | 6 | w. | El Paso & Southwest. R. R. |
| Espanola | Rio Arriba | 5,590 | 12 | 46.6[b] | + 3.2 | 72[b] | 24 | 16[b] | 30 | 46[b] | | | | | | | | | sw. | Mrs. E. F. McBride. |
| Estancia | Torrance | 6,140 | 5 | 47.4 | | 77 | 5 | 18 | 11† | 55 | 0.14 | ..... | 0.14 | 1.5 | 1 | 17 | 11 | 3 | e. | New Mex. Central R. R. |
| Fort Stanton | Lincoln | 6,231 | 32 | 48.6[a] | + 4.6 | 78 | 4† | 21[b] | 31 | 53[b] | 0.35 | − 0.46 | 0.20 | 4.0 | 2 | 19 | 6 | 6 | sw. | U. S. Sanitarium. |
| Fort Sumner | Guadalupe | 3,960 | 7 | 54.6 | ..... | 87 | 26 | 24 | 11 | 57 | 0.33 | ..... | 0.33 | 0.0 | 1 | 31 | 0 | 0 | w. | F. A. Manzanares. |
| Gallinas | Lincoln | 6,635 | | | | | | | | | 0.30 | ..... | 0.30 | 3.0 | 1 | 30 | 0 | 1 | w. | El Paso & Southwest. R. R. |
| Gallinas Planting Station | San Miguel | 7,500 | 3 | 44.8[a] | ..... | 72[a] | 5 | 18[a] | 30 | 53[a] | 0.65 | ..... | 0.41 | 1.6 | 3 | 13 | 15 | 3 | ne. | U. S. Forest Service. |
| Harvey's Upper Ranch | do | 9,400 | 1 | | | | | | | | 1.18 | ..... | 0.57 | 15.5 | 5 | 12 | 14 | 5 | se. | Simon B. Warner. |
| Hillsboro | Sierra | 5,224 | 13 | 56.0[f] | ..... | 83[f] | 6 | 30 | 12† | 47[f] | T. | ..... | T. | 0.0 | 0 | 9 | 10 | 12 | w. | Dr. Frank I. Givens. |
| Hodges | Taos | 8,484 | | | | | | | | | 0.60 | ..... | 0.40 | 6.6 | 5 | 15 | 8 | 8 | nw. | Jas. D. Bird. |
| Hondo Reservoir | Chaves | 3,904 | 1 | 56.6 | ..... | 90 | 25 | 28 | 12 | 53 | 0.26 | ..... | 0.26 | 0.0 | 1 | 22 | 5 | 4 | se. | U. S. Reclamation Service. |
| Hope | Eddy | | 3 | | | | | | | | | | | | | | | | ..... | C. M. Bott. |
| Hopewell | Rio Arriba | 9,500 | | 31.6 | ..... | 54 | 19† | 0 | 30 | 39 | 1.16 | ..... | 0.63 | 10.2 | 5 | 10 | 15 | 6 | w. | John T. Blanton. |
| Jemez Springs | Sandoval | 6,100 | | | | | | | | | | | | | | | | | ..... | Linus L. Shields. |
| Laguna | Valencia | 5,840 | 5 | 50.1 | ..... | 77 | 5† | 24 | 13† | 48 | 0.09 | ..... | 0.09 | 1.0 | 1 | 19 | 5 | 7 | w. | Gus Weiss. |
| Lagunita | Guadalupe | 4,500 | 5 | 53.2 | ..... | 81 | 5† | 22 | 11 | 56 | 0.31 | ..... | 0.31 | 0.0 | 2 | 11 | 9 | 11 | w. | P. A. Turnbull. |
| Lake Valley | Sierra | 5,413 | 5 | | | | | | | | 0.01 | ..... | 0.01 | T. | 1 | 8 | 23 | 0 | sw. | Wm. P. Keil. |
| Las Vegas | San Miguel | 6,384 | 23 | 47.1 | + 5.8 | 78 | 5 | 5 | 30 | 53 | 0.61 | + 0.01 | 0.32 | 3.2 | 4 | 21 | 7 | 3 | s. | Dr. Wm. Curtiss Bailey. |
| Liston | Chaves | | | | | | | | | | 0.20 | ..... | 0.20 | 0.0 | 2 | 17 | 14 | 0 | sw. | H. G. Liston. |
| Los Lunas (near) | Valencia | 4,900 | 20 | | | | | | | | | | | | | | | | ..... | Richard Pohl. |
| Los Tanos | Guadalupe | 4,919 | | | | | | | | | 0.25 | ..... | 0.25 | 0.0 | 2 | 21 | 9 | 1 | w. | El Paso & Southwest. R. R. |
| Magdalena | Socorro | 6,557 | 5 | 47.5 | ..... | 79 | 6 | 16 | 28 | 51 | 0.14 | ..... | 0.09 | 1.5 | 2 | 18 | 11 | 2 | w. | Wm. Pender. |
| Malaga | Eddy | 3,000 | | | | | | | | | | | | | | | | | ..... | Capt. Chas. Grapes. |
| Mineral Hill | San Miguel | 7,050 | 5 | | | | | | | | 0.23 | ..... | 0.20 | 0.5 | 2 | 3 | 21 | 7 | sw. | W. M. Nelson. |
| Monterey | Otero | 4,436 | | | | | | | | | 0.40 | ..... | 0.40 | 0.0 | 1 | 15 | 14 | 2 | sw. | El Paso & Southwest. R. R. |
| Monument | Eddy | 3,500 | 4 | | | | | | | | | | | | | | | | ..... | Jas. M. Cook. |
| Mountainair | Torrance | 6,547 | 8 | 49.0 | ..... | 77 | 25 | 21 | 31 | 45 | 0.27 | ..... | 0.21 | 0.0 | 3 | 25 | 6 | 0 | sw. | Mrs. John W. Corbett. |
| Newman | Otero | 3,989 | | | | 89 | 5 | 35 | 13 | | T. | ..... | T. | 0.0 | 0 | 21 | 8 | 2 | s. | El Paso & Southwest. R. R. |
| Noria | Dona Ana | 4,114 | | | | | | | | | T. | ..... | T. | 0.0 | 0 | 24 | 6 | 1 | e. | Do. |
| Orange | Otero | | | 59.3[f] | ..... | 91[f] | 25 | 26[f] | 29 | 50[f] | 0.00 | ..... | 0.00 | 0.0 | 0 | | | | ..... | Jas. Brownfield, jr. |
| Orogrande | do | 4,171 | | | | 92 | 25 | | | | 0.01 | ..... | 0.01 | 0.0 | 1 | 18 | 10 | 3 | w. | El Paso & Southwest. R. R. |
| Oscura (near) | Lincoln | 5,016 | 1 | | | | | | | | T. | ..... | T. | 0.0 | 0 | 14 | 14 | 3 | s. | Eugene F. Jones. |
| Otis | Eddy | 3,100 | 1 | | | | | | | | 0.24 | ..... | 0.16 | 0.0 | 3 | 23 | 5 | 3 | se. | A. M. Hove. |
| Otto | Santa Fe | 6,200 | 1 | | | | | | | | 0.38 | ..... | 0.28 | 1.5 | 2 | | | | ..... | W. K. Davis. |
| Pastura | Guadalupe | 5,285 | | | | | | | | | 0.25 | ..... | 0.25 | 1.0 | 1 | 5 | 22 | 4 | nw. | El Paso & Southwest. R. R. |
| Picacho (near) | Lincoln | | | | | | | | | | | | | | | | | | ..... | P. D. Southworth. |
| Red River Canyon | Taos | 8,650 | 2 | 36.2 | | 60 | 21† | 2 | 30 | 49 | 1.12 | ..... | 0.50 | 18.0 | 4 | 26 | 3 | 2 | e. | Mrs. L. R. Penn. |
| Rincon | Dona Ana | 4,030 | 12 | 58.3 | + 4.7 | 88 | 6 | 28 | 2† | 58 | T. | − 0.10 | T. | 0.0 | 0 | 15 | 6 | 10 | s. | Chas. H. Raitt. |
| Rio Grande Dam | Sierra | 4,265 | 12 | 57.2 | + 4.5 | 86 | 6 | 31 | 12 | 52 | 0.15 | − 0.18 | 0.15 | 0.0 | 1 | 18 | 8 | 5 | sw. | U. S. Reclamation Service. |
| Rosedale | Socorro | 6,910 | 5 | 48.8 | | 72 | 5† | 23 | 31 | 38 | 0.49 | ..... | 0.34 | 4.9 | 6 | 19 | 3 | 9 | w. | W. H. Martin. |
| Roswell | Chaves | 3,578 | 12 | 57.2 | + 5.9 | 89 | 25 | 28 | 12 | 53 | 0.05 | − 0.41 | 0.05 | 0.0 | 1 | 15 | 12 | 4 | s. | U. S. Weather Bureau. |
| San Marcial | Socorro | 4,439 | 14 | 56.7 | + 4.5 | 82 | 25† | 29 | 2 | 49 | 0.01 | − 0.24 | 0.01 | 0.0 | 1 | 10 | 16 | 5 | s. | Atch., Topeka & S. F. R. R. |
| San Rafael | Valencia | 6,500 | 6 | | | | | | | | | | | | | | | | ..... | Dr. Chas. M. Grover. |
| Santa Fe | Santa Fe | 7,013 | 37 | 45.8 | + 6.4 | 69 | 5 | 20 | 31 | 35 | 0.55 | − 0.18 | 0.53 | T. | 3 | 23 | 6 | 2 | ne. | U. S. Weather Bureau. |
| Santa Fe Canyon | do | 8,000 | | | | | | | | | 0.00 | ..... | 0.00 | 0.0 | 0 | 19 | 0 | 12 | e. | Candelario Martinez. |
| Santa Rosa | Guadalupe | 4,624 | 10 | 54.2[b] | | 83[d] | 5 | 24 | 11 | 51[d] | 0.27 | − 0.34 | 0.24 | 0.0 | 2 | 23 | 8 | 0 | w. | John L. Chapman. |
| Socorro | Socorro | 4,600 | 19 | 54.4[a] | + 5.1 | 90[b] | 20 | 28 | 12 | 55 | 0.05 | − 0.39 | 0.05 | 0.0 | 1 | 29 | 2 | 0 | n. | J. J. Leeson. |
| Stanley | Santa Fe | 6,317 | 1 | 47.1 | | 75 | 5 | 14 | 31 | 50 | 0.38 | ..... | 0.25 | 2.3 | 2 | 20 | 7 | 4 | se. | Wilbur F. Castle. |
| Strauss | Dona Ana | 4,080 | 11 | | | | | | | | 0.31 | − 0.13 | 0.26 | 0.0 | 2 | 22 | 8 | 1 | sw. | Southern Pacific Co. |
| Swastika Ranch | Valencia | 6,400 | | | | | | 30 | 29 | | 0.48 | ..... | 0.31 | 3.5 | 4 | 18 | 10 | 3 | sw. | Swastika S. & L. Co. |
| Taft | Guadalupe | | | | | | | | | | 0.18 | ..... | 0.18 | 0.0 | 1 | 17 | 12 | 2 | sw. | A. J. Wilmeth. |
| Taos | Taos | 6,983 | 12 | 45.8 | + 5.1 | 70 | 19† | 19 | 30 | 40 | 0.27 | − 0.57 | 0.15 | T. | 3 | 22 | 8 | 1 | sw. | Alexander Gusdorf. |
| Taos Canyon | do | 8,959 | | | | | | | | | 0.79 | ..... | 0.32 | 5.8 | 5 | | | | ..... | Leocadio Martinez, jr. |
| Tecolote | Lincoln | 6,539 | | | | | | | | | 0.42 | ..... | 0.33 | 2.5 | 2 | 26 | 5 | 0 | w. | El Paso & Southwest. R. R. |
| Three Rivers | Otero | 4,559 | | | | | | | | | 0.09 | ..... | 0.09 | 0.0 | 1 | 21 | 1 | 9 | ..... | Do. |
| Torrance | Torrance | 6,433 | | | | | | | | | 0.10 | ..... | 0.10 | 1.0 | 1 | 17 | 6 | 8 | w. | Do. |
| Tres Piedras | Taos | 8,076 | 5 | 41.4 | ..... | 65 | 20† | 13 | 30 | 41 | 0.70 | ..... | 0.50 | 3.0 | 3 | 25 | 4 | 2 | sw. | Edwin B. Seward. |
| Truchas | Rio Arriba | 7,935 | 1 | 39.4 | ..... | 66 | 5 | 6 | 29 | 50 | 0.50 | ..... | 0.40 | 2.0 | 2 | 4 | 24 | 3 | ..... | Ignacio Cordova. |
| Tularosa | Otero | 4,436 | 2 | 57.7 | ..... | 84 | 6† | 30 | 12† | 42 | 0.31 | ..... | 0.31 | 0.0 | 1 | 14 | 15 | 2 | sw. | Irby L. Fairless. |
| Vaughn | Guadalupe | 5,952 | | | | | | | | | 0.00 | ..... | 0.00 | 0.0 | 0 | | | | ..... | El Paso & Southwest. R. R. |
| Winsors | San Miguel | 8,200 | 12 | 38.6 | + 4.8 | 63 | 23† | 6 | 31 | 41 | 0.59 | − 0.68 | 0.40 | ..... | 2 | 15 | 7 | 9 | w. | Henry D. Winsor. |

TABLE 1.—*Climatological data for March, 1910. District No. 8*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Texas.* | | | | | | | | | | | | | | | | | | | | |
| Abilene | Taylor | 1,738 | 25 | 63.6 | + 8.7 | 90 | 8 | 33 | 11 | 42 | 0.31 | − 1.07 | 0.17 | 0.0 | 3 | 15. | 7 | 9 | s. | U. S. Weather Bureau. |
| Albany | Shackelford | 1,429 | 16 | 63.1 | +10.2 | 92 | 8 | 26 | 11 | 50 | 0.53 | − 1.07 | 0.53 | 0.0 | 1 | 20 | 3 | 8 | ..... | N. L. Bartholomew. |
| Alvin | Brazoria | 49 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.59 | − 0.80 | 2.57 | 0.0 | 2 | 18 | 10 | 3 | e. | F. A. Smith. |
| Anahuac | Chambers | 23 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.16 | ..... | 1.12 | 0.0 | 2 | ..... | ..... | ..... | ..... | B. H. Collins. |
| Austin | Travis | 593 | 24 | 65.6 | + 4.4 | 84 | 22 | 41 | 11 | 33 | 2.96 | + 0.55 | 2.32 | 0.0 | 5 | 20 | 5 | 6 | se. | A. Deussen. |
| Ballinger | Runnels | 1,637 | 15 | 62.4 | + 4.8 | 93 | 8 | 29 | 11 | 57 | 0.26 | − 0.68 | 0.26 | 0.0 | 1 | 17 | 5 | 9 | s. | E. M. Eubank. |
| Barstow | Ward | 2,573 | 3 | 64.8[b] | ..... | 97[b] | 23† | 32[b] | 3 | 59[b] | 0.20 | ..... | 0.20 | T. | 1 | 28 | 0 | 3 | se. | W. H. Denis. |
| Bay City | Matagorda | 53 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.88 | ..... | 0.88 | 0.0 | 1 | 22[f] | 0[f] | 3[f] | s. | E. C. Quereau. |
| Beaumont | Jefferson | 29 | 13 | 68.0 | ..... | 90 | 22 | 45 | 11† | 34 | 1.59 | − 1.31 | 0.70 | 0.0 | 4 | 20 | 0 | 11 | ne. | John Bender. |
| Beeville | Bee | 225 | 14 | 68.2 | + 5.1 | 88 | 1 | 42 | 3 | 40 | 4.10 | + 1.99 | 4.10 | 0.0 | 1 | 14 | 12 | 5 | se. | L. E. Dickey. |
| Big Springs | Howard | 2,396 | 12 | 62.9 | ..... | 92 | 24 | 31 | 11 | 50 | 0.28 | − 0.59 | 0.28 | 0.0 | 1 | 17 | 8 | 6 | s. | B. Reagan. |
| Blanco | Blanco | 1,350 | 14 | 62.1 | + 2.9 | 82 | 26 | 36 | 2 | 40 | 1.20 | − 0.55 | 0.91 | 0.0 | 4 | 19 | 10 | 2 | s. | R. C. Crist. |
| Boerne | Kendall | 1,412 | 18 | 67.7 | + 8.5 | 88 | 22 | 40 | 10 | 41 | 3.70 | + 1.95 | 2.80 | 0.0 | 3 | 13 | 9 | 9 | s. | F. W. Schweppe. |
| Booth | Fort Bend | 81 | 9 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.73 | ..... | 0.85 | 0.0 | 4 | 21 | 0 | 10 | se. | T. R. Booth. |
| Bowie | Montague | 1,113 | 16 | 64.4 | + 8.7 | 91 | 22 | 30 | 11 | 44 | 0.16 | − 1.71 | 0.08 | 0.0 | 3 | 20 | 8 | 3 | s. | Craig Anderson. |
| Brazoria | Brazoria | 25 | 21 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Mrs. M. A. Stevens. |
| Brazos | Palo Pinto | 801 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.58 | ..... | 0.45 | 0.0 | 2 | 21 | 1 | 9 | sw. | Robt. E. Boyett. |
| Brenham | Washington | 350 | 21 | 66.8 | + 3.9 | 89 | 22 | 42 | 1 | 39 | 0.70 | − 2.34 | 0.36 | 0.0 | 5 | 13 | 4 | 14 | s. | Mrs. B. F. Sloan. |
| Bridgeport | Wise | 754 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Wm. M. Wilkinson. |
| Brighton | Nueces | 12 | 14 | 68.0 | + 2.4 | 88 | 1 | 44 | 12 | 30 | 0.61 | − 0.71 | 0.61 | 0.0 | 1 | 16 | 13 | 2 | se. | G. H. Ritter. |
| Brownsville | Cameron | 38 | 21 | 69.8 | + 1.6 | 93 | 1 | 46 | 3 | 36 | 0.23 | − 1.10 | 0.13 | 0.0 | 3 | ..... | ..... | ..... | s. | U. S. Weather Bureau. |
| Brownwood | Brown | 1,342 | 20 | 62.3 | + 5.7 | 90 | 5† | 31 | 10 | 51 | 2.16 | + 0.65 | 1.05 | 0.0 | 5 | 23 | 5 | 3 | s. | Mrs. Pearl Smith. |
| Cameron | Milam | ..... | 2 | 66.3 | ..... | 93 | 22 | 38 | 11 | 40 | 2.35 | ..... | 0.85 | 0.0 | 5 | 26 | 3 | 2 | s. | J. E. Watts. |
| Carmona | Polk | 330 | 2 | 64.6 | ..... | 89 | 23 | 35 | 12† | 44 | 1.13 | ..... | 0.45 | 0.0 | 6 | 24 | 0 | 7 | s. | M. S. Spitler. |
| Claytonville | Fisher | 2,100 | 6 | 55.9 | ..... | 85 | 2† | 24 | 2 | 61 | 0.50 | ..... | 0.25 | 0.0 | 3 | 20 | 0 | 11 | s. | Wm. Lanius. |
| Coleman | Coleman | 1,710 | 16 | 63.3 | + 4.9 | 87 | 1 | 37 | 9 | 40 | 0.65 | − 0.72 | 0.60 | 0.0 | 2 | 20 | 7 | 4 | s. | J. H. Tucker. |
| College Station | Brazos | 308 | 19 | 66.6 | + 6.1 | 90 | 22 | 41 | 11 | 34 | 1.44 | − 0.91 | 0.60 | 0.0 | 3 | 22 | 5 | 4 | s. | Prof. G. S. Fraps. |
| Colorado | Mitchell | 2,066 | 16 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | R. M. Webb. |
| Columbia | Brazoria | 34 | 21 | 65.4 | + 2.9 | 87 | 22 | 44 | 16 | 36 | 1.15 | − 2.00 | 1.06 | 0.0 | 2 | 22 | 6 | 3 | s. | R. B. Loggins. |
| Columbus | Colorado | 206 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.00 | ..... | 0.60 | 0.0 | 4 | 13 | 5 | 13 | se. | Mrs. Sophie Bridge. |
| Comstock | Valverde | 1,557 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | A. D. Brown. |
| Corpus Christi | Nueces | 20 | 23 | 67.5 | + 3.1 | 87 | 1 | 48 | 13 | 27 | 2.06 | + 0.21 | 2.06 | 0.0 | 1 | 20 | 6 | 5 | se. | U. S. Weather Bureau. |
| Corsicana | Navarro | 445 | 21 | 63.8 | + 5.4 | 89 | 22 | 37 | 1† | 41 | 2.29 | − 0.85 | 1.70 | 0.0 | 5 | 22 | 1 | 8 | se. | E. L. Gibson. |
| Crockett | Houston | 350 | 6 | 65.9 | ..... | 90 | 22 | 38 | 11 | 36 | 1.59 | ..... | 1.11 | 0.0 | 3 | 24 | 2 | 5 | s. | A. M. Rencher. |
| Cuero | DeWitt | 177 | 21 | 66.8 | + 3.5 | 89 | 24† | 42 | 1 | 42 | 1.55 | − 0.59 | 1.35 | 0.0 | 3 | 20 | 0 | 11 | s. | H. R. Frobese. |
| Dallas | Dallas | 466 | 21 | 63.2 | + 6.5 | 93 | 22 | 34 | 11† | 46 | 1.73 | − 1.46 | 1.37 | 0.0 | 6 | 23 | 0 | 8 | s. | G. A. Eisenlohr. |
| Danevang | Wharton | 145 | 14 | 64.9[b] | + 1.4 | 87 | 22 | 43[d] | 2† | 40[d] | 1.20 | − 1.75 | 0.80 | 0.0 | 2 | 23 | 5 | 3 | se. | H. P. Hermansen. |
| Decatur | Wise | 1,047 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.22 | ..... | 0.15 | 0.0 | 3 | 28 | 3 | 0 | ..... | Fort Worth & Denver Ry. |
| Del Rio | Valverde | 952 | 4 | 67.2 | + 5.5 | 88 | 8 | 40 | 2 | 47 | 2.06 | + 0.38 | 1.20 | 0.0 | 4 | 15 | 8 | 8 | se. | U. S. Weather Bureau. |
| Devine | Medina | 653 | ..... | 68.4 | ..... | 90 | 2 | 41 | 2† | 49 | 0.75 | ..... | 0.65 | 0.0 | 2 | 19 | 6 | 6 | se. | M. A. Keller. |
| Dialville | Cherokee | 575 | 12 | 65.8 | ..... | 89 | 22† | 37 | 11 | 34 | 2.60 | − 0.44 | 1.05 | 0.0 | 4 | 21 | 6 | 4 | s. | J. M. B. McKnight. |
| Dilley | Frio | 569 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.50 | ..... | 1.00 | 0.0 | 2 | ..... | ..... | ..... | ..... | John W. Miller. |
| Dublin | Erath | 1,466 | 15 | 63.5 | + 5.3 | 89 | 22† | 35 | 11 | 38 | 2.00 | + 0.29 | 1.30 | 0.0 | 3 | 18 | 4 | 9 | s. | Jno. O. Shafer. |
| Duval | Travis | 820 | 21 | 65.8 | + 3.6 | 90 | 22 | 38 | 11 | 38 | 2.44 | + 0.36 | 1.57 | 0.0 | 6 | 19 | 4 | 8 | s. | J. C. Edgar. |
| Eagle Pass | Maverick | 800 | 21 | 66.0 | + 1.7 | 92 | 5† | 43 | 11† | 47 | 1.30 | + 0.17 | 0.50 | 0.0 | 4 | 3 | 23 | 5 | ..... | Jos. Metcalfe. |
| Edna | Jackson | 71 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.55 | ..... | 1.25 | 0.0 | 2 | ..... | ..... | ..... | ..... | E. L. Faires. |
| El Paso | El Paso | 3,762 | 31 | 61.0 | + 5.1 | 86 | 25 | 36 | 27 | 42 | T. | − 0.38 | T. | 0.0 | 0 | 19 | 11 | 1 | e. | U. S. Weather Bureau. |
| Encinal | La Salle | 558 | 2 | 69.4 | ..... | 90 | 2† | 41 | 2 | 49 | 0.78 | ..... | 0.55 | 0.0 | 2 | 18 | 5 | 8 | se. | H. C. Braden. |
| Fairland | Burnet | 1,000 | 1 | 65.2 | ..... | 91 | 22 | 35 | 11 | 46 | 5.32 | ..... | 4.58 | 0.0 | 7 | 20 | 4 | 7 | s. | R. L. Bush. |
| Falfurrias | Starr | ..... | 3 | 69.8 | ..... | 95 | 1 | 37 | 3† | 52 | 2.73 | ..... | 2.00 | 0.0 | 3 | 24 | 2 | 5 | se. | W. A. Gardner. |
| Flatonia | Fayette | 465 | 2 | 67.5 | ..... | 90 | 22 | 43 | 11 | 36 | 1.70 | ..... | 1.52 | 0.0 | 2 | 17 | 7 | 7 | s. | Fred W. Laux. |
| Flint | Smith | 483 | ..... | 64.6 | ..... | 89 | 23 | 37 | 11 | 43 | 2.23 | ..... | 0.87 | 0.0 | 6 | 20 | 4 | 7 | s. | F. C. C. Carter. |
| Fort Clark | Kinney | 1,050 | 23 | 66.2 | + 2.9 | 86 | 7† | 42 | 10 | 42 | 4.18 | + 3.04 | 3.00 | 0.0 | 3 | 15 | 10 | 6 | se. | Post Hospital. |
| Fort McIntosh | Webb | 460 | 24 | 71.5 | + 4.3 | 93 | 1 | 50 | 2† | 41 | 1.02 | + 0.07 | 0.62 | 0.0 | 2 | 22 | 1 | 8 | e. | Do |
| Fort Stockton | Pecos | 3,050 | 13 | 63.4 | + 7.0 | 95 | 8† | 35 | 12 | 52 | 0.17 | − 0.48 | 0.15 | 0.0 | 2 | 13 | 15 | 3 | se. | H. H. Buts. |
| Fort Worth | Tarrant | 670 | 15 | 64.4 | + 7.8 | 90 | 22 | 37 | 11 | 39 | 1.02 | − 0.74 | 0.91 | 0.0 | 5 | 20 | 4 | 7 | s. | U. S. Weather Bureau. |
| Fredericksburg | Gillespie | 1,742 | 21 | 63.0 | + 4.2 | 84 | 22 | 36 | 2 | 46 | 5.68 | + 3.99 | 4.02 | 0.0 | 4 | 17 | 11 | 3 | s. | Arthur Striegler. |
| Gainesville | Cooke | 738 | 21 | 63.2 | + 7.6 | 90 | 22 | 30 | 11 | 47 | 0.20 | − 2.88 | 0.20 | 0.0 | 1 | ..... | ..... | ..... | ..... | J. L. Hickson. |
| Galveston | Galveston | 69 | 40 | 66.0 | + 3.7 | 80 | 14 | 49 | 11 | 23 | 1.48 | − 1.42 | 1.44 | 0.0 | 2 | 19 | 9 | 3 | se. | U. S. Weather Bureau. |
| Gatesville | Coryell | 795 | 6 | 63.0 | ..... | 87 | 22 | 34 | 11 | 43 | 3.20 | ..... | 1.60 | 0.0 | 4 | 22 | 9 | 0 | ..... | John Ryan. |
| Georgetown | Williamson | 750 | 15 | 63.6 | + 2.7 | 90 | 21† | 33 | 1 | 42 | 0.50 | − 1.80 | 0.31 | 0.0 | 3 | 24 | 5 | 2 | s. | Prof. R. F. Young. |
| Gonzales | Gonzales | 299 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.39 | ..... | 0.66 | 0.0 | 5 | 12 | 7 | 12 | s. | J. M. Johnson. |
| Graham | Young | 1,040 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.20 | − 1.35 | 0.20 | 0.0 | 1 | ..... | ..... | ..... | ..... | C. W. Johnson. |
| Grand Saline | Van Zandt | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.16 | ..... | 2.08 | 0.0 | 6 | 19 | 5 | 7 | s. | F. E. Whittemore. |
| Grapevine | Tarrant | 670 | 20 | 66.0[a] | + 8.2 | 92[a] | 21 | 35 | 11 | 39[a] | 1.09 | − 2.16 | 0.65 | 0.0 | 5 | 15[a] | 5[a] | 10[a] | s. | W. J. Crowley. |
| Greenville | Hunt | 550 | 10 | 64.0 | + 5.1 | 91 | 22† | 35 | 1 | 42 | 1.90 | − 1.07 | 1.20 | 0.0 | 3 | 16 | 0 | 15 | s. | J. P. Regan. |
| Hallettaville | Lavaca | 235 | 19 | 64.8 | + 1.3 | 82 | 22 | 45 | 13 | 33 | 1.96 | + 0.01 | 1.76 | 0.0 | 2 | 20 | 6 | 5 | s. | Dr. J. E. Lay. |
| Harper | Gillespie | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.20 | ..... | 1.60 | 0.0 | 5 | 15 | 0 | 16 | ..... | Christian Fritz. |
| Haskell | Haskell | 4,013 | 19 | 63.2 | + 8.4 | 94 | 8 | 30 | 11† | 52 | 0.77 | − 0.58 | 0.67 | 0.0 | 2 | 20 | 5 | 6 | s. | P. D. Sanders. |
| Hebbronville | Duval | ..... | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.75 | ..... | 0.60 | 0.0 | 3 | ..... | ..... | ..... | ..... | Henry Edds. |
| Hempstead | Waller | 254 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.95 | ..... | 0.70 | 0.0 | 2 | 8 | 4 | 19 | s. | J. H. Hancock. |
| Henderson | Rusk | 500 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.84 | ..... | 0.84 | 0.0 | 6 | 17 | 6 | 8 | ..... | M. Kangerga. |
| Hewitt | McLennan | 664 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.47 | − 0.02 | 1.27 | 0.0 | 5 | ..... | ..... | ..... | ..... | I. H. Earle. |
| Hillsboro | Hill | 628 | 7 | 63.8 | ..... | 90 | 23 | 36 | 11 | 47 | 4.13 | ..... | 1.87 | 0.0 | 4 | ..... | ..... | ..... | ..... | Thompson & Campbell. |
| Hondo | Medina | 901 | 8 | 69.8 | ..... | 87 | 24 | 45 | 1† | 40 | 1.17 | ..... | 1.17 | 0.0 | 2 | 14 | 13 | 4 | ..... | H. E. Haass. |
| Houston | Harris | 138 | 21 | 67.2 | + 5.5 | 87 | 22 | 46 | 11 | 29 | 0.84 | − 2.95 | 0.68 | 0.0 | 4 | 19 | 5 | 7 | se. | U. S. Weather Bureau. |
| Huntsville | Walker | 400 | 22 | 64.4 | + 3.7 | 86 | 22 | 39 | 12† | 37 | 0.83 | − 2.84 | 0.40 | 0.0 | 3 | 13 | 0 | 18 | se. | W. Y. Barr. |
| Jewett | Leon | 496 | 6 | 65.4 | ..... | 93 | 23 | 32 | 1 | 48 | 1.40 | ..... | 0.45 | 0.0 | 4 | 21 | 5 | 5 | s. | Earle Adkisson. |
| Junction | Kimble | 1,645 | 7 | 63.4 | ..... | 88 | 6† | 32 | 1 | 52 | 2.40 | ..... | 2.00 | 0.0 | 2 | 22 | 0 | 9 | ..... | Judge John S. Durst. |
| Kaufman | Kaufman | 448 | 11 | 64.9 | + 4.6 | 88 | 23 | 37 | 1† | 40 | 2.44 | − 1.20 | 0.80 | 0.0 | 4 | 22 | 2 | 7 | s. | B. J. Hubbard. |
| Keene | Johnson | 940 | 2 | 67.5[1] | ..... | 89[1] | 6† | 40 | 15 | 35[1] | 1.96 | ..... | 1.30 | 0.0 | 3 | 22 | 0 | 9 | ..... | Industrial Academy. |
| Kerrville | Kerr | 1,650 | 15 | 64.8 | + 7.6 | 85 | 2† | 25 | 2 | 60 | 6.17 | + 4.82 | 6.05 | 0.0 | 2 | 21 | 3 | 7 | s. | Mrs. F. Coleman. |
| Knickerbocker | Tom Green | 2,050 | 6 | 65.1[c] | ..... | 91[c] | 8 | 33[c] | 2† | 54[c] | 0.85 | ..... | 0.40 | 0.0 | 4 | 15 | 13 | 3 | s. | Jos. Tweedy. |
| Kopperl | Bosque | 576 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.08 | − 0.71 | 2.20 | 0.0 | 5 | 15 | 5 | 11 | s. | T. A. Johnson. |
| Lampasas | Lampasas | 1,026 | 19 | 63.4 | + 3.6 | 89 | 5† | 32 | 11 | 53 | 4.18 | + 2.41 | 3.73 | 0.0 | 4 | 20 | 3 | 8 | s. | Mrs. K. I. Webber. |
| La Parra | Cameron | 38 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.03 | ..... | 1.03 | 0.0 | 1 | ..... | ..... | ..... | ..... | John G. Kennedy. |
| Laureles Ranch | Nueces | 20 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Matt Cody. |
| Le Min Ranch | Terrell | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Lewis Le Min. |
| Liberty | Liberty | 38 | 6 | 66.0 | ..... | 91 | 22 | 40 | 12 | 41 | 0.94 | ..... | 0.87 | 0.0 | 3 | 23 | 6 | 2 | ne. | Mrs. Fannie Sneed. |
| Llano | Llano | 1,040 | 19 | 65.2 | + 4.9 | 88 | 8† | 36 | 11 | 47 | 4.14 | + 3.06 | 2.06 | 0.0 | 4 | 24 | 2 | 5 | e. | E. W. Torrence. |
| Llano Grande | Hidalgo | 86 | 2 | 65.9 | ..... | 95 | 1 | 36 | 3† | 53 | 0.50 | ..... | 0.50 | 0.0 | 1 | 27 | 2 | 2 | se. | M. D. Wardlow. |
| Long Lake | Anderson | 229 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.28 | ..... | 0.72 | 0.0 | 4 | 17 | 3 | 11 | s. | Tom Ritson. |
| Longview | Gregg | 336 | 21 | 63.4 | + 5.3 | 88 | 23 | 38 | 11 | 35 | 1.67 | − 2.89 | 0.82 | 0.0 | 3 | 23 | 1 | 7 | ne. | C. A. Propst. |
| Lufkin | Angelina | 325 | 3 | 64.8 | ..... | 89 | 21† | 38 | 12 | 41 | 1.06 | ..... | 0.63 | 0.0 | 4 | 24 | 0 | 7 | s. | T. A. King. |
| Luling | Caldwell | 418 | 21 | 66.5 | + 5.0 | 87 | 22 | 42 | 11 | 36 | 1.40 | − 0.27 | 0.60 | 0.0 | 4 | 14 | 3 | 14 | s. | John Carter. |
| McGregor | McLennan | 713 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.77 | ..... | 1.94 | 0.0 | 5 | 16 | 9 | 6 | n. | T. E. Streight. |
| Marathon | Brewster | 4,043 | ..... | 59.0 | ..... | 85 | 5 | 32 | 31 | 37 | 0.60 | ..... | 0.30 | T. | 2 | 13 | 8 | 10 | s. | Rev. A. P. Willis. |

TABLE 1.—*Climatological data for March, 1910. District No. 8*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Texas*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Marble Falls | Burnet | 771 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.02 | ..... | 3.74 | 0.0 | 4 | 14 | 4 | 13 | sw. | Wm. Harrison. |
| Marfa | Presidio | ..... | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.10 | ..... | 0.10 | 0.0 | 1 | ..... | ..... | ..... | ..... | R. K. Colquitt. |
| Marshall | Harrison | 375 | 1 | 63.6 | ..... | 88 | 23 | 36 | 11 | 40 | 1.63 | ..... | 0.97 | 0.0 | 5 | 13 | 12 | 6 | sw. | Lee Scott. |
| Mexia | Limestone | 537 | 6 | 62.4 | ..... | 88 | 22 | 37 | 1† | 41 | 2.09 | ..... | 0.85 | 0.0 | 6 | 11 | 11 | 9 | s. | Miss Josephine Newman. |
| Midland | Midland | ..... | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 24 | 7 | 0 | sw. | H. J. Elder. |
| Mont Belvieu‖ | Chambers | 65 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.38 | ..... | 2.24 | 0.0 | 3 | 19 | 8 | 4 | s. | A. R. Shearer. |
| Mt. Blanco | Crosby | 2,750 | 22 | 58.2 | + 6.9 | 88 | 24† | 24 | 11 | 50 | 0.45 | − 0.13 | 0.20 | 0.0 | 3 | 12 | 10 | 9 | s. | H. C. Smith. |
| Nacogdoches | Nacogdoches | 271 | 11 | 63.1 | + 2.8 | 89 | 23 | 37 | 11† | 45 | 0.89 | − 3.39 | 0.42 | 0.0 | 3 | 17 | 2 | 12 | s. | Miss Mary Hofmann. |
| New Braunfels | Comal | 720 | 21 | 66.5 | + 5.4 | 87 | 22 | 42 | 11 | 38 | 0.19 | − 1.54 | 0.11 | 0.0 | 2 | 10 | 17 | 4 | s. | J. Giesecke. |
| Palestine | Anderson | 510 | 28 | 65.6 | + 7.1 | 88 | 22 | 42 | 11 | 27 | 1.92 | − 1.55 | 1.06 | 0.0 | 5 | 18 | 7 | 6 | s. | U. S. Weather Bureau. |
| Panter | Hood | 1,000 | 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.20 | + 0.14 | 1.00 | 0.0 | 5 | ..... | ..... | ..... | ..... | E. H. Snider. |
| Pearsall | Frio | 629 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.40 | ..... | 0.40 | 0.0 | 1 | ..... | ..... | ..... | ..... | H. E. Walker. |
| Pierce | Wharton | 102 | 4 | 61.0 | ..... | 83 | 22 | 40 | 13 | 39 | 1.17 | ..... | 0.67 | 0.0 | 2 | 18 | 7 | 6 | ..... | R. B. Pointer. |
| Plainview | Hale | 3,370 | 2 | 56.2 | ..... | 89 | 25 | 28 | 11 | 48 | 0.23 | ..... | 0.21 | 0.0 | 3 | 17 | 10 | 4 | sw. | J. F. Sander. |
| Port Lavaca | Calhoun | 20 | 9 | 68.6 | ..... | 91 | 22 | 43 | 13 | 40 | 1.64 | ..... | 1.18 | 0.0 | 2 | 21 | 6 | 4 | s. | J. H. Bickford. |
| Ricardo | Nueces | 57 | 1 | 69.4 | ..... | 91 | 1 | 40 | 13 | 44 | 1.35 | ..... | 1.25 | 0.0 | 2 | 21 | 6 | 4 | se. | Lindsay Waters. |
| Riverside | Walker | 169 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.77 | ..... | 0.41 | 0.0 | 2 | 21 | 0 | 10 | s. | Mrs. C. W. Higdon. |
| Robert Lee | Coke | 1,850 | 2 | 63.0 | ..... | 91 | 6† | 33 | 10† | 50 | 0.36 | ..... | 0.22 | 0.0 | 3 | 20 | 5 | 6 | s. | H. D. Pearce. |
| Rockland | Tyler | 136 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.87 | ..... | 0.87 | 0.0 | 1 | 16 | 1 | 14 | s. | D. W. Bellamy. |
| Rossville | Atascosa | 558 | 3 | 67.6 | ..... | 89 | 25 | 42 | 12 | 38 | T. | ..... | T. | 0.0 | 0 | 12 | 15 | 4 | se. | W. F. M. Ross. |
| Runge | Karnes | 308 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.69 | + 0.83 | 1.30 | 0.0 | 5 | ..... | ..... | ..... | ..... | Reiffert & Frobese. |
| Sabinal | Uvalde | 964 | 6 | 67.6 | ..... | 87 | 1† | 43 | 13† | 42 | 2.50 | ..... | 1.22 | 0.0 | 4 | 11 | 8 | 12 | e. | Jas. Johnson. |
| San Angelo | Tom Green | 1,847 | 2 | 63.4 | ..... | 91 | 8 | 36 | 11 | 48 | 1.18 | ..... | 0.98 | 0.0 | 2 | 10 | 11 | 4 | s. | Sam Crowther. |
| San Antonio | Bexar | 701 | 25 | 67.8 | + 5.7 | 86 | 2 | 43 | 11 | 35 | 0.42 | − 1.26 | 0.23 | 0.0 | 3 | 14 | 11 | 6 | se. | U. S. Weather Bureau. |
| San Augustine | San Augustine | 360 | 1 | 63.9ª | ..... | 89 | 22† | 35ª | 12 | 44ª | 1.02 | ..... | 0.50 | 0.0 | 3 | 20 | 2 | 9 | ..... | F. A. Wilson. |
| San Juanito‖ | Hidalgo | ..... | 1 | 72.5 | ..... | 95 | 1 | 45 | 13 | 41 | 0.55 | ..... | 0.30 | 0.0 | 5 | 10 | 9 | 12 | se. | J. B. McAllen. |
| San Marcos | Hays | 588 | 17 | 65.0 | + 2.4 | 85 | 23† | 42 | 13 | 38 | 1.10 | + 0.63 | 1.10 | 0.0 | 1 | 19 | 0 | 12 | s. | Miss L. C. Ford. |
| San Saba | San Saba | 1,712 | 6 | 63.2 | ..... | 91 | 20 | 30 | 11 | 50 | 4.77 | ..... | 2.48 | 0.0 | 6 | 21 | 0 | 10 | s. | Jas. Burns. |
| Santa Gertrudes | Nueces | ..... | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.93 | ..... | 0.93 | 0.0 | 1 | ..... | ..... | ..... | ..... | J. B. Wright, jr. |
| Seymour | Baylor | 1,180 | 4 | 61.8 | ..... | 91 | 5 | 25 | 11 | 52 | 0.98 | ..... | 0.56 | 0.0 | 5 | 21 | 6 | 4 | s. | F. M. Deaver. |
| Somerville | Burleson | 251 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | W. A. Dolan. |
| Sonora | Sutton | 2,200 | 7 | 61.6 | ..... | 88 | 8 | 27 | 2 | 58 | 1.10 | ..... | 0.90 | 0.0 | 3 | 8 | 22 | 1 | s. | Mike Murphy. |
| Sugarland | Fort Bend | 79 | 12 | 67.3 | ..... | 89 | 22† | 45 | 12 | 36 | 1.23 | − 2.34 | 1.08 | 0.0 | 3 | 23 | 6 | 2 | s. | O. M. Bakke. |
| Taylor | Williamson | 583 | 9 | 65.0 | + 5.3 | 88 | 22 | 37 | 11 | 36 | 2.31 | − 0.31 | 1.66 | 0.0 | 6 | 18 | 8 | 5 | s. | U. S. Weather Bureau. |
| Temple | Bell | 630 | 16 | 67.4 | + 8.8 | 89 | 5† | 35 | 11 | 45 | 2.64 | + 0.17 | 1.21 | 0.0 | 6 | 18 | 7 | 6 | s. | H. D. Patterson. |
| Tilden | McMullen | ..... | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Wm. Kuykendall. |
| Tivoli | Refugio | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.55 | ..... | 1.55 | 0.0 | 1 | ..... | ..... | ..... | ..... | W. H. Gisler. |
| Uvalde | Uvalde | 937 | 2 | 67.7 | ..... | 89 | 2 | 42 | 13 | 45 | 2.68 | ..... | 1.60 | 0.0 | 6 | 11 | 13 | 7 | se. | F. M. Getzendaner. |
| Valley Junction | Robertson | 289 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.90 | ..... | 0.40 | 0.0 | 5 | 18 | 3 | 10 | s. | T. M. Williams. |
| Victoria | Victoria | 187 | 12 | 67.7 | + 5.0 | 88 | 14† | 46 | 12† | 38 | 2.71 | + 0.65 | 1.46 | 0.0 | 3 | 11 | 0 | 20 | s. | C. C. Zirjacks. |
| Waco | McLennan | 424 | 21 | 63.2 | + 3.3 | 88 | 22 | 38 | 11 | 36 | 3.54 | + 0.45 | 1.82 | 0.0 | 5 | 15 | 3 | 13 | s. | E. H. Hall. |
| Waxahachie | Ellis | 556 | 14 | 63.0 | + 5.1 | 92 | 22 | 34 | 11† | 47 | 2.80 | − 0.49 | 1.47 | 0.0 | 6 | 22 | 1 | 8 | s. | C. D. Longserre. |
| Weatherford | Parker | 864 | 21 | 63.6 | + 7.0 | 87 | 8† | 33 | 11 | 41 | 1.03 | − 1.30 | 0.70 | 0.0 | 2 | 21 | 2 | 8 | n. | Miss J. Stickfort. |
| Wharton | Wharton | 105 | 8 | 67.4 | ..... | 86 | 5† | 44 | 12 | 37 | 1.61 | ..... | 1.11 | 0.0 | 3 | 14 | 0 | 17 | sw. | Mrs. F. M. Hughs. |
| Wills Point | Van Zandt | 524 | 5 | 61.5 | ..... | 87 | 22 | 31 | 1 | 42 | 2.30 | ..... | 1.33 | 0.0 | 4 | 21 | 1 | 9 | s. | W. W. Gibbard. |
| Zapata | Zapata | 300 | 1 | 72.2 | ..... | 94 | 1 | 45 | 3 | 45 | 1.49 | ..... | 1.26 | 0.0 | 5 | 14 | 9 | 8 | se. | F. H. Earnest. |

ª, ᵇ, ᶜ, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1910. District No. 8, Texas and Rio Grande Valley.*

| Stations. | River basins | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Colorado.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blanca | Rio Grande | .02 | | | | | | | | | T. | | | | | .01 | .10 | | | | | | | | | | T. | | | .55 | | | 0.68 |
| Cumbres | do | | | | | | | | | T. | | | | | | T. | | | | | | | | | | T. | .33 | | T. | .98 | | | 1.31 |
| Garnett | do | | | | | | | | | | | | | | | .06 | | | | | | | | | | | | | | .21 | | | 0.27 |
| Hermit | do | .09 | | | | | | | | | | | | | | .19 | .09 | | T. | | | | | T. | | * | .41 | | * | .15 | | | 0.93 |
| La Veta Pass | do | | | | | | | | | * | .45 | | | | | T. | | | | | | | | | | | T. | | .80 | | | | 1.25 |
| Manassa | do | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | | | T. |
| Platora | do | T. | | | | | | | | | .03 | | | | | .17 | .12 | | | | | | | .03 | | | .29 | | .05 | .03 | T. | | | 0.72 |
| Saguache | do | | | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | | .42 | | | 0.42 |
| San Luis | do | T. | | | | | | | | | | | | | | .05 | | | | | | | | | | | | | T. | .77 | | | 0.82 |
| Wagon Wheel Gap | do | | | | | | | | | | | | | | | | | | | | | | | | | .30 | .05 | .05 | .10 | | | | 0.50 |
| *New Mexico.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agricultural College | Rio Grande | | | | | | | | | | .33 | | | | | | | | | | | | | | | | | | | | | | 0.33 |
| Alamogordo (near) | do | | | | | | | | | | | .20 | | | | | | | | T. | | | | | | | | | | | | | 0.20 |
| Alamogordo | do | | | | | | | | | | | .15 | | | | | | | | | | | | | | | | | | | | | 0.15 |
| Albuquerque | do | | | | | | | | | | | | | | | .23 | .01 | | | | | | | | | | | | | .06 | | | 0.30 |
| Ancho | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Artesia | Pecos | | | | | | | | | | | .01 | | | | | | | | | | | | | | | | | | | | | 0.01 |
| Aspen Grove Ranch | Rio Grande | | | | | | | | | .21 | | | | | .04 | .25 | | | | | | | | | | | .10 | | | .19 | .14 | | 0.93 |
| Bateman's Ranch | do | | | | | | | | | | T. | | | | | .15 | | | | | | | | | | | T. | | .08 | .40 | | | 0.63 |
| Bluewater | do | | | | | | | | | | T. | | | | | T. | | | | | | | | | | | | | T. | T. | | | T. |
| Bluewater Reservoir | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boas | Pecos | | | | | | | | | | | | | | | .06 | | | | | | | | | | | | | | | | | 0.06 |
| Capitan | do | | | | | | T. | | | | * | .10 | | | | | | | | | | | | | | | | | | T. | | | 0.10 |
| Carlsbad | do | | | | | | | | | | | .02 | .02 | | | | | | | | | | | | | | | | | | | | 0.04 |
| Carrizoso | Rio Grande | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Chama | do | | | | | | | | | | | | | | | .09 | | | | | | | | | | | .17 | | .12 | .84 | | | 1.22 |
| Clouderoft | Pecos | | | | | | | | | | .07 | | .23 | | | | | | | | | | | | | | | | T. | | | | 0.30 |
| Corona | do | | | | | | | | | | .35 | | | | | | | | | | | | | | | | | | | | | | 0.35 |
| Coyote | Rio Grande | | | | | | | | | | .20 | | | | | | | | | | | | | | | | | | | | | | 0.20 |
| Cundiyo | do | | | | | | | | | | | | | | | * | .31 | | | | | | | | | | | | T. | .01 | | | 0.32 |
| Demonstration Farm | Pecos | | | | | | | | | | | | | | | .15 | | | | | | | | | | | | | | | .31 | | 0.46 |
| Duran | do | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | T. |
| Edisco Mine | Rio Grande | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elida | Pecos | | | | | | | | | | | | | | | .01 | | | | | | | | | | | | | | | | | 0.01 |
| Elk (near) | do | | | | | | | | | T. | T. | T. | | | | | | | T. | | | | | | | | | | | T. | | | T. |
| Escondido | Rio Grande | | | | | | | | | | | .80 | | | | | | | T. | | | | | | | | | | | | | | 0.80 |
| Espanola | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Estancia | do | | | | | | | | | | T. | | | | .14 | | | | | | T. | | | | | | | | | T. | | | 0.14 |
| Fort Stanton | Pecos | | | | | | | | | | .20 | .15 | | | T. | T. | | | | | | | | | | | | | | | | | 0.35 |
| Fort Sumner | do | | | | | | | | | | | | | | | .33 | | | | | | | | | | | | | | | | | 0.33 |
| Gallinas | do | | | | | | | | | | .30 | | | | | | | | | | | | | | | | | | | | | | 0.30 |
| Gallinas Pltg. Station | do | | | | | | | | | T. | .08 | | | | | .41 | | | | | | | | | | | T. | | T. | T. | .16 | | 0.65 |
| Harvey's Upper Ranch | do | | | | | | | | | .13 | | | | | | .57 | T. | T. | | T. | T. | | | T. | | | T. | | .11 | .16 | .21 | | 1.18 |
| Hillsboro | Rio Grande | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hodges | do | | | | | | | | | | | | | | | .07 | | | | | | | | | | T. | .05 | | * | .40 | .08 | | 0.60 |
| Hondo Reservoir | Pecos | | | | | | | | | | | .26 | | | | T. | | | | | | | | | | | | | | | | | 0.26 |
| Hope | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hopewell | Rio Grande | T. | | | | | | | | | .01 | | | | | .63 | | | | | | | | | | | .15 | | T. | .27 | .10 | | 1.16 |
| Jemez Springs | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Laguna | do | | | | | | | | | | T. | | | | T. | T. | | | | | | | | | | | | | | .09 | | | 0.09 |
| Lagunita | Pecos | | | | | | | | | | | | | | | * | .13 | | T. | | | | | | | | | | | | | | 0.31 |
| Lake Valley | Rio Grande | | | | | | | | | | T. | .01 | | | | | | | | | | | | | | T. | | | | | T. | | 0.01 |
| Las Vegas | Pecos | | | | | | | | | | | | | | | .17 | .10 | | | | | | | | | | | | | T. | .30 | .02 | 0.61 |
| Liston | do | | | | | | | | | | | | | | | * | .20 | | | | | | | | | | | | | | | | 0.20 |
| Los Lunas (near) | Rio Grande | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Los Tanos | Pecos | | | | | | | | | | | | | | | * | .25 | | | | | | | | | | | | | | | | 0.25 |
| Magdalena | Rio Grande | | | | | | | | | | .05 | | | | T. | T. | | | | | | | | | | T. | | | T. | T. | .09 | | | 0.14 |
| Malaga | Pecos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineral Hill | do | | | | | | | | | | | | | | | .20 | | | | | | | | | | | | | | .03 | | | 0.23 |
| Monterey | Rio Grande | | | | | | | | | | | .40 | | | | | | | | | | | | | | | | | | | | | 0.40 |
| Monument | Pecos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mountainair | Rio Grande | | | | | | | | | | | | | | | T. | .21 | | | .04 | | | | | | | .02 | | T. | | | | 0.27 |
| Newman | do | | | | | | | | | | T. | T. | | | | | | | T. | | | | | | | | | | | | | | T. |
| Noria | do | | | | | | | | | | T. | | | | | | | | T. | | | | | | | | | | | | | | T. |
| Orange | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Orogrande | do | | | | | | | | | | | .01 | | | | | | | | | | | | | | | | | | | | | 0.01 |
| Oscura | do | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | T. |
| Otis | Pecos | | | | | | | | | | | .05 | .02 | | T. | | | | | T. | .16 | | | | | | | | | | T. | | 0.24 |
| Otto | Rio Grande | | | | | | | | | | | | | | | .28 | | | | | | | | | | | | | | | .10 | | 0.38 |
| Pastura | Pecos | | | | | | | | | | | | | | | .25 | | | | | | | | | | | | | | | | | 0.25 |
| Picacho (near) | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red River Canyon | Rio Grande | | | | | | | | | T. | | | | | | | .32 | | | | | | | | | | | .30 | * | .50 | | | | 1.12 |
| Rincon | do | | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | T. | | | T. |
| Rio Grande Dam | do | | | | | | | | | T. | T. | T. | | | | | | | | | | | T. | | | | | | | .15 | | | 0.15 |
| Rosedale | do | | | | | | | | | | .34 | | | | T. | .01 | T. | T. | T. | .01 | | | | | | | T. | | .01 | T. | .11 | .01 | 0.49 |
| Roswell | Pecos | | | | | | | | | | | .05 | | | | | | | | | | | | | | | | | | | | | 0.05 |
| San Marcial | Rio Grande | | | | | | | | | | .01 | | | | | | | | | | | | | | | | | | | | | | 0.01 |
| San Rafael | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Santa Fe | do | | | | | | | | | | | | | | T. | .53 | | | | | T. | | | | | | .01 | | .01 | T. | T. | | 0.55 |
| Santa Fe Canyon | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Santa Rosa | Pecos | | | | | | | | | | | | | | | .03 | .24 | | | | T. | | | | | | | | | | T. | | 0.27 |
| Socorro | Rio Grande | | | | | | | | | | | | | | .05 | | | | | | | | | | | | | | | | | | 0.05 |
| Stanley | do | | | | | | | | | | | | | | | .25 | | | | | | | | | | | | | | | T. | .13 | 0.38 |
| Strauss | do | | | | | | | | | | | .05 | | | | | | | .36 | T. | | | | | | | | | | | | | 0.31 |
| Swastika Ranch | do | | | | | | | | | | .31 | | | | T. | .06 | T. | T. | | T. | | | | | | T. | | | T. | .21 | T. | .10 | 0.48 |
| Taft | Pecos | | | | | | | | | | | | | | T. | .18 | | | | | | | | | | | | | | | | | 0.18 |
| Taos | Rio Grande | | | | | | | | | | | | | | | .15 | | | | | | | | | | | T. | | .04 | .08 | | | 0.27 |
| Taos Canyon | do | T. | | | | | | | | | .12 | | | | | T. | .10 | | | | T. | | | | | | .17 | | T. | .32 | .08 | | | 0.79 |
| Tecolote | do | | | | | | | | | | .33 | | | | | .09 | | | | | | | | | | | | | | | | | 0.42 |
| Three Rivers | do | | | | | | | | | | | .09 | | | | T. | | | | | T. | | | | | | | | | T. | | | 0.09 |
| Torrance | Pecos | | | | | | | | | | .10 | | | | | T. | | | | | | | | | | | | | | | | | 0.10 |
| Tres Piedras | Rio Grande | | | | | | | | | .50 | | | | | | .10 | | | | | | | | | | .10 | | T. | | | | | 0.70 |
| Truchas | do | | | | | | | | | | | | | | | .40 | | | | | | | | | | | | | | .10 | T. | | 0.50 |
| Tularosa | do | | | | | | | | | | | .31 | T. | | | | | | | | | | | | | | | | | | | | 0.31 |
| Vaughn | Pecos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Winsors | do | | | | | | | | | | | | | | | .40 | | | | | | | | | | | | | | .19 | | | 0.59 |
| *Texas.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abilene | Brazos | | | | | | | | | | .17 | | | | | | .11 | | | | | | | | | | | | | T. | | .03 | 0.31 |
| Albany | do | | | | | | | | | T. | | | | | | .53 | | | | | | | | | | | | | | | T. | | 0.53 |
| Alvin‖ | Coast | | | | | | | | | | * | 2.57 | | | | | | .02 | | | | | | | | | | | | | | | 2.59 |
| Anahuac | do | | | | | | | | | | 1.12 | | | | | | | .04 | | | | | | | | | | | | | | | 1.16 |
| Austin | Colorado | | | | | | | | | | .07 | | | | | | | .34 | | | | | | | | | | | | .22 | .01 | 2.32 | 2.96 |
| Ballinger‖ | do | | | | | | | | | | T. | | | | | | T. | T. | | | | | | | | | | | | T. | | .26 | 0.26 |
| Barstow | Pecos | | | | | | | | | | | T. | .20 | | | | | | T. | | | | | | | T. | | | | | T. | | 0.20 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 8*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Texas*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bay City | Colorado | | | | | | | | | | | .88 | | | | | | | | | | | | | | | | | | | | 0.88 |
| Beaumont‖ | Neches | | | | .04 | | | | | | | .70 | | | | | | T. | .68 | | | | | | | | | | | | .17 | 1.59 |
| Beeville‖ | Coast | | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | 4.10 | 4.10 |
| Big Springs | Colorado | | | | | | | | | | | .04 | | | | T. | | | | .28 | | | | | | | | | | | T. | 0.28 |
| Blanco‖ | Guadalupe | | | | | | | | | | .50 | | | | | | T. | .17 | | | | | | | | | | | | .08 | .91 | 1.20 |
| Boerne | San Antonio | | | | | | | | | | .28 | .85 | | | | | | | .02 | | | | | | | | | | T. | 2.80 | .40 | 3.70 |
| Booth‖ | Brazos | | | | | | | | | | | | | | | | | .08 | | | | | | | | | .06 | .02 | | | .58 | 1.73 |
| Bowie | Trinity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.16 |
| Brazoria | Brazos | | | | | | | | | | | | | | | | T. | .13 | | | | | | | | | | | | | .45 | 0.58 |
| Brazos‖ | ...do | | | | | | | | | | .36 | .05 | | | | | | .08 | .09 | T. | T. | | | | | | | | | T. | .12 | 0.70 |
| Brenham‖ | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bridgeport‖ | Trinity | | | | | | | | | | T. | T. | | | | | | | | | | | | | | | | | | | .61 | 0.61 |
| Brighton | Coast | | | | | | | | | | | .10 | .03 | | | | | | | .03 | | | | | | | | | | T. | .07 | 0.23 |
| Brownsville | Rio Grande | | | | | | | | | .03 | | | | | | | | .05 | | | | | | | | | | | .03 | T. | 1.05 | 1.00 | 2.16 |
| Brownwood‖ | Colorado | | | | | | | | | | .70 | .08 | | | | | | .58 | .14 | | | | | | | | | | | | .85 | 2.35 |
| Cameron‖ | Brazos | | | | | | | | | | .32 | | | | | | | .01 | .05 | .45 | | | | | | | | | | | .22 | .08 | 1.13 |
| Carmona | Neches | | | | | | | | | .20 | | | | | | | .05 | | | | | | | | | | | | | .25 | | | 0.50 |
| Claytonville | Brazos | | | | | | | | | | | | | | | | .05 | | | | | | | | | | | | | T. | T. | .60 | 0.65 |
| Coleman | Colorado | | | | | | | | | | .41 | | | | | | | .43 | | | | | | | | | | | | | | .60 | 1.44 |
| College Station | Brazos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colorado | Colorado | | | | | | | | | | 1.06 | | | | | | | | | | | | | | | | | | T. | | | .09 | 1.15 |
| Columbia | Brazos | | | | | | | | | | .18 | .16 | | | | | | T. | .06 | | T. | | | | | | | | | | .60 | 1.00 |
| Columbus‖ | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comstock | Rio Grande | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | T. | 2.06 | 2.06 |
| Corpus Christi | Coast | | | | | | | | | | .10 | | | | | | | .03 | .16 | | | | | | | | | | | .30 | 1.70 | 2.29 |
| Corsicana‖ | Trinity | | | | | | | | | | .36 | | | | | | | .12 | T. | | | | | | | | | | | T. | 1.11 | 1.59 |
| Crockett | ...do | | | | | | | | | | | .07 | .13 | | | | | | | | | | | | | | | | | | 1.35 | 1.55 |
| Cuero‖ | Guadalupe | | | | | | | | | | .06 | | | | | | | .08 | .04 | | | | | | | | | | | .02 | .16 | 1.37 | 1.73 |
| Dallas‖ | Trinity | | | | | | | | | | .80 | | | | | | | | | | | | | | | | | | | | .40 | 1.20 |
| Danevang | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | .15 | .02 | 0.22 |
| Decatur | Trinity | | | | | | | | | T. | | .02 | | | | | | | | .64 | | | | | | | | | T. | | .96 | .44 | 2.06 |
| Del Rio | Rio Grande | | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | | T. | T. | .65 | 0.75 |
| Devine | Nueces | | | | | | | | | | .95 | | | | | | T. | T. | | T. | | | | | | | .15 | | | T. | 1.05 | .45 | 2.60 |
| Dialville | Neches | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.00 | .50 | | 1.50 |
| Dilley | Nueces | | | | | | | | | | .33 | | | | | | | .37 | | | | | | | | | | | | T. | | 1.30 | 2.00 |
| Dublin‖ | Brazos | | | | | | | | .08 | | | | | | | | T. | .39 | | .04 | | | | | | | | | | .30 | .06 | 1.57 | 2.44 |
| Duval | Colorado | | | | | | | | | | | | | | | | | | .30 | .20 | | | | | | | | | | | .40 | .40 | 1.30 |
| Eagle Pass | Rio Grande | | | | | .30 | | | | T. | | | | | | | | | | | | | | T. | | | | | | | 1.25 | 1.55 |
| Edna | Lavaca | | | | | | | | | | | T. | | | | | | | | T. | | | | | | | | | | | | | T. |
| El Paso | Rio Grande | | | | | | | | | | | | | | | | | | | .55 | | | | | | | | | | | .23 | 0.78 |
| Encinal | Nueces | | | | | | | | | .32 | .03 | | | | | | .07 | .03 | | | | | | | | | | | | .02 | 4.58 | .27 | 5.32 |
| Fairland | Colorado | | | | | | | | | | | T. | .03 | T. | | | | | | T. | 2.00 | | | | | | | | | | | .70 | 2.73 |
| Falfurrias | Coast | | | | | | | | | | .18 | | | | | | | T. | | | | | | | | | | | | | 1.52 | 1.70 |
| Flatonia | Guadalupe | | | | | | | | | | .87 | | | | | | | .19 | .27 | .07 | | | | | | | | | | T. | .49 | .34 | 2.23 |
| Flint | Neches | | | | | | | | | | | T. | | | | | | | | .67 | | | | | | | | | | T. | 3.00 | .51 | 4.18 |
| Fort Clark‖ | Rio Grande | | | | | | | | | | | | | | | | | | | .62 | .40 | | | | | | | | | | | | 1.02 |
| Fort McIntosh | ...do | | | | | | | | | | T. | .15 | | | | | | | T. | T. | | | | | | | | | | | T. | .02 | 0.17 |
| Fort Stockton | Pecos | | | | | | | | | T. | | | | | | | .08 | .01 | T. | T. | | | | | | | | T. | | .01 | .77 | .15 | 1.02 |
| Fort Worth | Trinity | | | | | | | | | | .13 | | | | | | | | | | .01 | | | | | | | | | T. | 4.02 | 1.52 | 5.68 |
| Fredricksburg | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | | 0.20 |
| Gainesville | Trinity | | | | | | | | | | 1.44 | | | | | | T. | .04 | | | | | | | | | | | | | | | 1.48 |
| Galveston | Coast | | | | | | | | | | .10 | | | | | | | .30 | | | | | | | | | | | | | 1.60 | 1.30 | 3.20 |
| Gatesville | Brazos | | | | | | | | | | | | .04 | | | | | | | | | | | | | | | | | | .15 | .31 | 0.50 |
| Georgetown‖ | ...do | | | | | | | | | | .33 | | | | | | | .12 | .20 | | .08 | | | | | | | | | | | .66 | 1.39 |
| Gonzales‖ | Guadalupe | | | | | | | | | | | | | | | | .20 | | | | | | | | | | | | | T. | T. | 0.20 |
| Graham | Brazos | | | | | | | | | .45 | T. | | | | | | T. | .13 | T. | .10 | | .19 | | | | | | | | T. | 2.08 | .21 | 3.16 |
| Grand Saline | Sabine | | | | | | | | | | T. | | | | | | | .11 | | | .03 | | | | | | | | | .13 | .65 | .17 | 1.09 |
| Grapevine | Trinity | | | | | | | | | | .25 | | | | | | | T. | | | | | | | | | | | | | .45 | 1.20 | 1.90 |
| Greenville‖ | Sabine | | | | | | | | | | .20 | | | | | | | T. | | | | | | | | | | | | T. | 1.76 | 1.96 |
| Hallettsville | Lavaca | | | | | | | | | | | .04 | | | | | | | .01 | | | | | | | | | | | .01 | 1.60 | 1.54 | 3.20 |
| Harper | Colorado | | | | | | | | | | | | | | | | .67 | | | | | | | | | | | | | .10 | | | 0.77 |
| Haskell | Brazos | | | | | | | | | | | | | | | | | | | | .60 | | | | | | | | | | .10 | .05 | 0.75 |
| Hebbronville | Coast | | | | | | | | | | | | .70 | T. | | | | T. | | T. | T. | | | | | | | | | | | .25 | 0.95 |
| Hempstead‖ | Brazos | | | | | | | | | | .84 | | | | | | | .07 | .23 | .03 | | | | | | | | | | | .55 | .12 | 1.84 |
| Henderson | Neches | | | | | | | | | | .25 | | | | | | T. | .13 | | | | | | | | | | | | .04 | 1.27 | .78 | 2.47 |
| Hewitt | Brazos | | | | | | | | | | .89 | | | | | | | | | | | | | | | | | | | .74 | 1.87 | .63 | 4.13 |
| Hillsboro | ...do | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .37 | .80 | 1.17 |
| Hondo | Nueces | | | | | | | | | | .68 | | | | | | | .05 | | | T. | | | | | | | | | | .05 | .06 | 0.84 |
| Houston | Coast | | | | | | | | | | .40 | | | | | | | .28 | T. | | | | | | | | | | | | | .15 | 0.83 |
| Huntsville‖ | Trinity | | | | | | | | | .17 | | | | | | | | .35 | T. | | | | | | | | | | | T. | .45 | .43 | 1.40 |
| Jewett‖ | ...do | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | .40 | 2.00 | 2.40 |
| Junction | Colorado | | | | | | | | | | .80 | | | | | | | T. | | | | | | | | | | | | .25 | .75 | .64 | 2.44 |
| Kaufman | Trinity | | | | | | | | | | | | | .06 | | | | | | | | | | | | | | | | | .60 | 1.30 | 1.96 |
| Keene | Brazos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .12 | 6.05 | 6.17 |
| Kerrville‖ | Guadalupe | | | | | | | | | T. | | | .34 | | | | T. | .03 | T. | | | | | | | | | | | .08 | | .40 | 0.85 |
| Knickerbocker | Colorado | | | | | | | | | | .38 | .08 | | | | | | .10 | T. | | | T. | | | | | | | | | .32 | 2.20 | 3.08 |
| Kopperl‖ | Brazos | | | | | | | | | | .03 | | | | | | .27 | | | | | | | | | | | | | .15 | | 3.73 | 4.18 |
| Lampasas‖ | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.03 | 1.03 |
| La Parra | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Laureles Ranch | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Le Min Ranch | Pecos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.94 |
| Liberty‖ | Trinity | | | | | | | | | | .80 | .07 | | | | | | T. | .07 | | | | T. | | | | | | | .01 | 2.03 | 2.66 | 4.14 |
| Llano | Colorado | | | | | | | | | .04 | T. | | | | | | T. | | | | | | | | | | | | | | | .50 | 0.50 |
| Llano Grande | Rio Grande | | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | .72 | 1.28 |
| Long Lake‖ | Trinity | | | | | | | | | | .38 | T. | | | | | | .02 | .16 | T. | | | | | | | | | | | | .81 | 1.67 |
| Longview‖ | Sabine | | | | | | | | | | .82 | | | | | | | | .04 | | | | | | | | | | | | | .03 | 1.06 |
| Lufkin | Neches | | | | | | | | | | .63 | | | | | | | .02 | .38 | | | | | | | | | | | | | .16 | .60 | 1.40 |
| Luling‖ | Guadalupe | | | | | | | | | | | | .34 | | | | | | | | .30 | | | | | | | | | | 1.94 | .29 | 2.77 |
| McGregor | Brazos | | | | | | | | | .21 | T. | | | | | | .17 | | | | | | | | | | | | | .16 | | | .30 | 0.60 |
| Marathon | Rio Grande | | | | | | | | | | | | | | T. | | | | | .30 | | | | | | | | | | | 3.74 | 4.02 |
| Marble Falls‖ | Colorado | | | | | | | | | | T. | .04 | | | | | | .10 | | | T. | | | | | | | | | | .14 | | 0.10 |
| Marfa | Rio Grande | | | | | | | | | | | | | | | | | | | | | | | | | | .10 | | | | | .40 | 1.63 |
| Marshall | Sabine | | | | | | | | | | .97 | | | | | | | .01 | .19 | .06 | | | | | | | | | | | .08 | .80 | 2.09 |
| Mexia‖ | Brazos | | | | | | | | | | .85 | .03 | | | | | | .21 | .12 | | | | | | | | | | | | | | 0.00 |
| Midland | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .08 | 2.38 |
| Mont Belvieu | Coast | T. | | | | | | | | | 2.24 | | | | | | | .06 | | | | | | | | | | | | .20 | | | 0.45 |
| Mt. Blanco | Brazos | | | | | | | | | | T. | | | | | | .20 | | | .05 | | | | | | | | | | | | .08 | 0.89 |
| Nacogdoches‖ | Neches | | | | | | | | | | .42 | | | | | | | T. | T. | .39 | | | | | | | | | | T. | | .11 | 0.19 |
| New Braunfels | Guadalupe | | | | | | | | | | T. | | | | | | | | | .08 | | | | | | | | | | | | .27 | .90 | 1.92 |
| Palestine | Trinity | T. | | | | | | | | T. | .61 | | | | | | T. | .13 | T. | T. | | .01 | | | | | | | | | 1.00 | .92 | 2.20 |
| Panter | Brazos | | | | | | | | | .05 | | | | | | | | .21 | .02 | | | | | | | | | | | T. | | .40 | 0.40 |
| Pearsall | Nueces | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .50 | 1.17 |
| Pierce | Colorado | | | | | | | | | | .67 | | | | | | | | | | | | | | | | | | | .01 | | | 0.23 |
| Plainview | Brazos | | | | | | | | | | | | | | | | .21 | | .01 | T. | | | | | | | | | | | | | |

TABLE 2.—*Daily precipitation for March, 1910. District No. 8*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Texas*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Port Lavaca | Coast | | | | | | | | | T. | .46 | | | | | | | | | T. | .10 | | | | | | | | | T. | T. | 1.18 | 1.64 |
| Ricardo | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.25 | 1.35 |
| Riverside[‖] | Trinity | | | | | | | | | | .36 | | | | | | | .41 | T. | | | | | | | | | | | | | T. | 0.77 |
| Robert Lee[‖] | Colorado | | | | | | | | | | .22 | | | | | | | .10 | | | | | | | | | | | | .04 | | | 0.36 |
| Rockland[‖] | Neches | | | | | | | | | | .87 | T. | | | | | | | | | | | | | | | | | | | | | 0.87 |
| Rosnville | Nueces | | | | T. | T. | | | | | T. | | | | | | | | | | | | | | | | | | | T. | T. | | T. |
| Runge | San Antonio | .50 | | | | | .66 | | | .18 | | | | | | | | | | | | | | | | | | | | | 1.30 | .05 | 2.69 |
| Sabinal | Nueces | | | | | | | | | | .60 | .12 | | | | | | | | | | | | | | | | | | | 1.22 | .56 | 2.50 |
| San Angelo | Colorado | | | | | | | | | | | | | | | | .20 | | | | | | | | | | | | | | | .98 | 1.18 |
| San Antonio | San Antonio | | | | | | | | | | .19 | | | | | | T. | | | | T. | | | | | | | | | T. | .07 | .16 | 0.42 |
| San Augustine | Neches | T. | | | | | | | | | .50 | | | | | | | T. | .02 | | | | | | | | | | | | | .50 | 1.02 |
| San Juanito | Coast | | | | | | | | | | | .02 | .07 | | | | | | | .30 | .08 | | | | | | | | | | T. | .08 | 0.55 |
| San Marcos[‖] | Guadalupe | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.10 | 1.10 |
| San Saba | Colorado | | | | | | | | | | .15 | | | | | | .14 | .19 | | | | | | | | | | | | .04 | 2.48 | 1.77 | 4.77 |
| Santa Gertrudes[‖] | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | .93 | 0.93 |
| Seymour | Brazos | | | | | | | | | T. | .08 | | | | | | .56 | .12 | .15 | | | | | | | | | | | .07 | | T. | 0.98 |
| Somerville | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sonora | Rio Grande | | | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | .10 | T. | .90 | 1.10 |
| Sugarland | Brazos | | | | | | | | | | 1.08 | | | | | | | T. | .05 | .10 | | | | | | | | | | | | | 1.23 |
| Taylor | ...do | | | | | | | | | | .21 | | | | | | .02 | .15 | | | | | | | | | | | | .27 | .25 | 1.41 | 2.31 |
| Temple[‖] | Brazos | | | | | | | | | | .51 | | | | | | .49 | .10 | | | | T. | | | | | | | | .12 | 1.21 | .21 | 2.64 |
| Tilden | Nueces | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tivoli | Guadalupe | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.55 | 1.55 |
| Uvalde | Nueces | | | | | | | | | | .41 | .21 | | | | | | T. | | .16 | | | | | | | | | | .04 | 1.60 | .26 | 2.68 |
| Valley Junction[‖] | Brazos | | | | | | | | | | | | | | | | | .20 | .20 | | .10 | | | | | | | | | | .20 | .20 | 0.90 |
| Victoria[‖] | Guadalupe | | | | | | | | | .30 | | | | | | | | | | 1.46 | | | | | | | | | | | | .95 | 2.71 |
| Waco[‖] | Brazos | | | | | | | | | | 1.36 | | | | | | | .16 | .20 | | | | | | | | | | | | 12 | 1.70 | 3.54 |
| Waxahachie[‖] | Trinity | | | | | | | | | .48 | | | | | | | | .04 | .03 | | | T. | | | | | | | | .36 | 1.47 | .42 | 2.80 |
| Weatherford[‖] | ...do | | | | | | | | | | T. | | | | | | | .33 | | | | | | | | | | | | | | .70 | 1.03 |
| Wharton[‖] | Colorado | | | | | | | | | | | 1.11 | | | | | | | | | .23 | | | | | | | | | | | .27 | 1.61 |
| Wills Point | Sabine | | | | | | | | | | .46 | | | | | | T. | .09 | | T. | | | | | | | | | | T. | 1.33 | .42 | 2.30 |
| Zapata | Rio Grande | | | | | | | | | | | .12 | .05 | | | T. | | | | 1.26 | .04 | | | | | | | | | | | .02 | 1.49 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 8, Texas and Rio Grande Valley.*

| Date. | Colorado. | | | | New Mexico. | | | | | | | | | | | | | | | | Texas. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Garnett. | | San Luis. | | Agricultural College. | | Carlsbad. | | Fort Stanton. | | Mountainair. | | Rosedale. | | Roswell. | | Santa Fe. | | Santa Rosa. | | Abilene. | | Big Springs. | | Brownsville. | | Corpus Christi. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 54 | 21 | 54 | 20 | 76 | 44 | 80 | 38 | 75 | 32 | 71 | 35 | 67 | 33 | 78 | 39 | 59 | 32 | 75 | 31 | 76 | 47 | 76 | 42 | 93 | 61 | 87 | 62 |
| 2... | 57 | 24 | 60 | 23 | 79 | 32 | 87 | 32 | 74 | 27 | 70 | 33 | 65 | 36 | 82 | 32 | 60 | 32 | 75 | 40 | 84 | 45 | 80 | 41 | 85 | 56 | 78 | 57 |
| 3... | 58 | 25 | 62 | 24 | 81 | 42 | 85 | 44 | 76 | 29 | 72 | 34 | 66 | 36 | 81 | 40 | 62 | 31 | 77 | 32 | 86 | 52 | 88 | 41 | 82 | 46 | 68 | 55 |
| 4... | 60 | 24 | 65 | 24 | 83 | 39 | 88 | 40 | 78 | 26 | 74 | 31 | 68 | 37 | 85 | 37 | 64 | 34 | 80 | 30 | 84 | 51 | 91 | 41 | 80 | 48 | 71 | 61 |
| 5... | 66 | 21 | 64 | 26 | 83 | 38 | 89 | 34 | 78 | 25 | 72 | 35 | 72 | 41 | 87 | 34 | 69 | 36 | 83 | 32 | 87 | 55 | 88 | 42 | 82 | 57 | 70 | 63 |
| 6... | 65 | 21 | 65 | 25 | 85 | 38 | 93 | 36 | 75 | 25 | 69 | 39 | 72 | 42 | 86 | 37 | 68 | 36 | 72 | 39 | 87 | 55 | 91 | 47 | 83 | 60 | 76 | 63 |
| 7... | 64 | 21 | 63 | 31 | 83 | 48 | 78 | 38 | 76 | 26 | 71 | 27 | 69 | 39 | 75 | 35 | 66 | 31 | 70 | 28 | 82 | 40 | 80 | 41 | 82 | 52 | 78 | 58 |
| 8... | 58 | 25 | 57 | 24 | 78 | 40 | 85 | 40 | 69 | 35 | 65 | 40 | 66 | 45 | 80 | 39 | 61 | 37 | 76 | 36 | 90 | 59 | 90 | 50 | 80 | 58 | 78 | 60 |
| 9... | 51 | 26 | 53 | 22 | 79 | 42 | 81 | 46 | 66 | 27 | 64 | 30 | 66 | 47 | 69 | 38 | 59 | 30 | 68 | 31 | 61 | 41 | 65 | 50 | 80 | 66 | 75 | 66 |
| 10... | 51 | 16 | 54 | 18 | 60 | 45 | 75 | 45 | 50 | 29 | 61 | 25 | 58 | 28 | 57 | 30 | 48 | 27 | 75 | 34 | 55 | 37 | 58 | 37 | 82 | 62 | 72 | 53 |
| 11... | 56 | 21 | 58 | 19 | 58 | 42 | 59 | 40 | 51 | 30 | 58 | 29 | 49 | 29 | 53 | 36 | 56 | 25 | 66 | 24 | 66 | 33 | 68 | 31 | 65 | 55 | 61 | 52 |
| 12... | 58 | 16 | 60 | 20 | 66 | 37 | 68 | 32 | 62 | 22 | 55 | 22 | 55 | 30 | 67 | 28 | 58 | 29 | 71 | 25 | 73 | 41 | 75 | 36 | 75 | 48 | 68 | 50 |
| 13... | 60 | 21 | 66 | 20 | 69 | 40 | 73 | 35 | 65 | 23 | 64 | 24 | 57 | 32 | 74 | 32 | 62 | 28 | 75 | 28 | 77 | 44 | 78 | 35 | 78 | 48 | 75 | 48 |
| 14... | 60 | 22 | 59 | 24 | 75 | 41 | 76 | 42 | 64 | 25 | 66 | 29 | 57 | 35 | 76 | 36 | 59 | 39 | 72 | 30 | 77 | 44 | 77 | 39 | 84 | 50 | 72 | 52 |
| 15... | 54 | 27 | 52 | 25 | 75 | 46 | 78 | 47 | 66 | 32 | 62 | 28 | 61 | 37 | 72 | 43 | 47 | 35 | 61 | 42 | 73 | 48 | 80 | 42 | 81 | 58 | 70 | 57 |
| 16... | 56 | 22 | 58 | 24 | 73 | 44 | 75 | 48 | 68 | ..... | 59 | 35 | 60 | 30 | 70 | 43 | 56 | 32 | 67 | 37 | 61 | 52 | 75 | 52 | 78 | 56 | 70 | 65 |
| 17... | 62 | 25 | 62 | 25 | 77 | 45 | 76 | 40 | 71 | 35 | 61 | 39 | 64 | 35 | 77 | 36 | 60 | 33 | 75 | 32 | 64 | 50 | 75 | 47 | 78 | 65 | 71 | 66 |
| 18... | 62 | 23 | 65 | 23 | 78 | 43 | 82 | 40 | 71 | 30 | 55 | 29 | 64 | 38 | 79 | 39 | 63 | 36 | 80 | 31 | 78 | 49 | 84 | 48 | 79 | 63 | 72 | 66 |
| 19... | 65 | 25 | 66 | 21 | 75 | 49 | 82 | 44 | 69 | 31 | 74 | 34 | 65 | 36 | 80 | 45 | 65 | 35 | ..... | 39 | 79 | 55 | 80 | 55 | 80 | 64 | 70 | 66 |
| 20... | 65 | 25 | 65 | 25 | 77 | 45 | 77 | 42 | 70 | ..... | 73 | 35 | 66 | 37 | 77 | 42 | 63 | 40 | ..... | 38 | 80 | 50 | 80 | 46 | 74 | 60 | 72 | 65 |
| 21... | 66 | 23 | 68 | 27 | 75 | 46 | 78 | 41 | 71 | 27 | 72 | 50 | 63 | 36 | 76 | 40 | 64 | 41 | ..... | 36 | 84 | 52 | 83 | 46 | 80 | 57 | 78 | 59 |
| 22... | 65 | 24 | 64 | 27 | 80 | 44 | 82 | 38 | 76 | 26 | 72 | 30 | 68 | 40 | 80 | 38 | 65 | 37 | ..... | 36 | 85 | 55 | 83 | 52 | 83 | 52 | 79 | 54 |
| 23... | 62 | 32 | 60 | 40 | 81 | 46 | 92 | 44 | 74 | 40 | 74 | 41 | 67 | 46 | 88 | 45 | 66 | 39 | 81 | 44 | 85 | 55 | 87 | 57 | 83 | 59 | 80 | 58 |
| 24... | 65 | 21 | 61 | 26 | 81 | 47 | 89 | 49 | 76 | 33 | 73 | 35 | 70 | 48 | 86 | 44 | 62 | 33 | 79 | 45 | 89 | 59 | 92 | 59 | 82 | 66 | 77 | 66 |
| 25... | 56 | 19 | 61 | 26 | 85 | 46 | 92 | 47 | 78 | 31 | 77 | 38 | 70 | 42 | 89 | 43 | 63 | 42 | 81 | 45 | 87 | 60 | 90 | 58 | 83 | 62 | 78 | 65 |
| 26... | 46 | 22 | 51 | 30 | 65 | 53 | 90 | 60 | 69 | 42 | 65 | 41 | 62 | 35 | 76 | 53 | 55 | 32 | 72 | 50 | 82 | 59 | 86 | 63 | 82 | 63 | 76 | 65 |
| 27... | 57 | 18 | 59 | 20 | 75 | 32 | 84 | 40 | 72 | 25 | 70 | 25 | 63 | 25 | 80 | 34 | 60 | 28 | 72 | 34 | 83 | 60 | 84 | 48 | 81 | 65 | 74 | 68 |
| 28... | 58 | 23 | 59 | 28 | 75 | 39 | 89 | 50 | 69 | 28 | 66 | 35 | 58 | 32 | 82 | 43 | 60 | 25 | 80 | 34 | 77 | 61 | 75 | 59 | 81 | 66 | 74 | 68 |
| 29... | 42 | 23 | 41 | 20 | 64 | 35 | 85 | 45 | 55 | 31 | 53 | 27 | 48 | 27 | 66 | 37 | 38 | 24 | 82 | 34 | 78 | 59 | 73 | 49 | 81 | 68 | 76 | 70 |
| 30... | 45 | 16 | 45 | 11 | 55 | 36 | 70 | 37 | 50 | 28 | 48 | 23 | 42 | 24 | 64 | 33 | 42 | 24 | 57 | 27 | 62 | 45 | 68 | 40 | 82 | 70 | 74 | 70 |
| 31... | 52 | 15 | 55 | 12 | 65 | 37 | 69 | 38 | 55 | 21 | 56 | 21 | 51 | 23 | 67 | 30 | 51 | 20 | 67 | 27 | 60 | 41 | 63 | 41 | 81 | 70 | 72 | 65 |
| Mns | 57.9 | 22.2 | 59.1 | 23.5 | 74.5 | 42.0 | 80.9 | 41.7 | 68.4 | 28.7[b] | 65.9 | 32.2 | 62.2 | 35.5 | 76.1 | 38.4 | 59.1 | 32.4 | 74.0[d] | 34.5 | 77.2 | 50.1 | 79.5 | 46.3 | 80.6 | 59.1 | 73.9 | 61.6 |

| Date. | Texas. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Del Rio. | | El Paso. | | Fort McIntosh. | | Fort Stockton. | | Fort Worth. | | Galveston. | | Hallettsville. | | Houston. | | Lufkin. | | Palestine. | | Plainview. | | San Antonio. | | Seymour. | | Taylor. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 87 | 46 | 76 | 49 | 93 | 60 | 80 | 41 | 75 | 52 | 72 | 56 | 80 | 54 | 78 | 54 | 79 | 51 | 72 | 51 | 70 | 25 | 84 | 57 | 77 | 44 | 81 | 53 |
| 2... | 87 | 40 | 80 | 41 | 91 | 50 | 91 | 40 | 80 | 41 | 70 | 59 | 78 | 48 | 80 | 53 | 77 | 43 | 76 | 52 | 81 | 33 | 86 | 51 | 87 | 35 | 81 | 45 |
| 3... | 87 | 46 | 82 | 44 | 91 | 50 | 87 | 46 | 83 | 54 | 70 | 59 | 75 | 47 | 77 | 54 | 82 | 45 | 79 | 55 | 81 | 40 | 82 | 50 | 84 | 45 | 81 | 48 |
| 4... | 84 | 50 | 83 | 46 | 89 | 60 | 91 | 44 | 82 | 53 | 72 | 60 | 75 | 48 | 79 | 53 | 83 | 47 | 79 | 56 | 86 | 38 | 79 | 53 | 87 | 42 | 79 | 50 |
| 5... | 84 | 53 | 84 | 42 | 89 | 60 | 94 | 48 | 82 | 54 | 75 | 61 | 74 | 58 | 80 | 56 | 80 | 47 | 76 | 55 | 87 | 42 | 81 | 57 | 91 | 45 | 79 | 52 |
| 6... | 86 | 55 | 85 | 46 | 90 | 60 | 93 | 41 | 89 | 56 | 74 | 62 | 78 | 60 | 83 | 59 | 82 | 55 | 82 | 57 | 73 | 43 | 83 | 62 | 80 | 52 | 83 | 59 |
| 7... | 86 | 55 | 85 | 52 | 90 | 58 | 80 | 45 | 78 | 47 | 72 | 59 | 79 | 59 | 81 | 56 | 85 | 53 | 82 | 57 | 77 | 30 | 84 | 55 | 77 | 37 | 84 | 53 |
| 8... | 88 | 54 | 79 | 53 | 91 | 58 | 95 | 49 | 86 | 58 | 72 | 62 | 76 | 56 | 80 | 54 | 83 | 54 | 80 | 56 | 76 | 38 | 84 | 51 | 89 | 46 | 82 | 51 |
| 9... | 78 | 58 | 76 | 54 | 89 | 60 | 80 | 45 | 74 | 49 | 71 | 64 | 76 | 55 | 80 | 63 | 80 | 62 | 77 | 62 | 64 | 38 | 82 | 61 | 62 | 48 | 79 | 59 |
| 10... | 67 | 53 | 62 | 44 | 84 | 60 | 69 | 40 | 58 | 40 | 66 | 51 | 55 | 49 | 68 | 50 | 75 | 47 | 68 | 45 | 53 | 34 | 68 | 46 | 57 | 37 | 67 | 41 |
| 11... | 66 | 52 | 61 | 44 | 68 | 50 | 51 | 45 | 67 | 37 | 63 | 49 | 64 | 47 | 67 | 46 | 65 | 39 | 62 | 42 | 69 | 28 | 68 | 43 | 72 | 25 | 64 | 37 |
| 12... | 76 | 53 | 66 | 38 | 83 | 50 | 63 | 35 | 80 | 47 | 69 | 56 | 70 | 47 | 76 | 48 | 70 | 38 | 75 | 52 | 73 | 30 | 75 | 50 | 78 | 35 | 77 | 41 |
| 13... | 80 | 46 | 71 | 41 | 84 | 50 | 78 | 39 | 81 | 51 | 74 | 54 | 77 | 45 | 80 | 52 | 83 | 42 | 80 | 56 | 75 | 34 | 79 | 50 | 81 | 35 | 81 | 45 |
| 14... | 85 | 52 | 74 | 43 | 88 | 55 | 80 | 42 | 75 | 52 | 80 | 57 | 80 | 47 | 84 | 55 | 76 | 49 | 74 | 55 | 67 | 36 | 85 | 51 | 73 | 45 | 82 | 50 |
| 15... | 82 | 61 | 76 | 52 | 86 | 55 | 84 | 50 | 68 | 46 | 65 | 58 | 70 | 61 | 67 | 52 | 68 | 45 | 65 | 46 | 69 | 32 | 76 | 58 | 72 | 38 | 72 | 51 |
| 16... | 80 | 60 | 74 | 48 | 87 | 55 | 77 | 48 | 62 | 48 | 64 | 58 | 68 | 50 | 68 | 48 | 67 | 40 | 64 | 44 | 62 | 41 | 75 | 54 | 61 | 45 | 68 | 46 |
| 17... | 80 | 60 | 77 | 50 | 89 | 60 | 76 | 40 | 55 | 50 | 63 | 59 | 69 | 57 | 62 | 55 | 68 | 50 | 56 | 51 | 74 | 36 | 77 | 58 | 61 | 49 | 62 | 52 |
| 18... | 75 | 59 | 76 | 50 | 86 | 60 | 80 | 54 | 67 | 51 | 68 | 61 | 74 | 57 | 76 | 58 | 72 | 49 | 71 | 52 | 74 | 40 | 80 | 61 | 70 | 47 | 79 | 55 |
| 19... | 70 | 58 | 72 | 54 | 85 | 60 | 77 | 55 | 80 | 57 | 68 | 61 | 80 | 57 | 75 | 57 | 78 | 48 | 76 | 55 | 74 | 46 | 77 | 59 | 80 | 52 | 76 | 57 |
| 20... | 78 | 57 | 74 | 46 | 77 | 55 | 75 | 42 | 83 | 54 | 72 | 61 | 78 | 55 | 80 | 56 | 82 | 54 | 81 | 59 | 79 | 43 | 80 | 57 | 83 | 51 | 80 | 63 |
| 21... | 82 | 51 | 74 | 45 | 84 | 50 | 82 | 43 | 87 | 58 | 77 | 61 | 81 | 52 | 83 | 58 | 89 | 53 | 85 | 62 | 77 | 43 | 84 | 57 | 88 | 53 | 85 | 54 |
| 22... | 84 | 50 | 81 | 51 | 86 | 55 | 85 | 40 | 90 | 57 | 76 | 62 | 82 | 55 | 87 | 58 | 89 | 53 | 88 | 61 | 79 | 40 | 85 | 58 | 87 | 52 | 88 | 66 |
| 23... | 85 | 51 | 82 | 56 | 87 | 55 | 92 | 43 | 88 | 58 | 72 | 64 | 81 | 53 | 86 | 58 | 87 | 53 | 86 | 64 | 84 | 45 | 84 | 59 | 84 | 51 | 84 | 58 |
| 24... | 87 | 58 | 81 | 51 | 91 | 60 | 95 | 54 | 85 | 60 | 72 | 63 | 78 | 58 | 83 | 61 | 84 | 50 | 82 | 57 | 87 | 45 | 85 | 61 | 90 | 49 | 83 | 56 |
| 25... | 86 | 62 | 86 | 54 | 89 | 60 | 95 | 57 | 85 | 60 | 74 | 65 | 74 | 52 | 83 | 58 | 84 | 56 | 83 | 56 | 89 | 48 | 84 | 58 | 89 | 57 | 83 | 53 |
| 26... | 83 | 60 | 70 | 50 | 88 | 60 | 94 | 60 | 82 | 56 | 73 | 66 | 78 | 60 | 84 | 61 | 85 | 56 | 84 | 59 | 85 | 45 | 83 | 59 | 85 | 56 | 83 | 60 |
| 27... | 82 | 61 | 77 | 36 | 86 | 60 | 85 | 44 | 81 | 59 | 74 | 66 | 75 | 61 | 80 | 60 | 85 | 57 | 83 | 60 | 79 | 35 | 82 | 63 | 85 | 50 | 82 | 60 |
| 28... | 77 | 64 | 77 | 45 | 86 | 60 | 85 | 58 | 78 | 61 | 72 | 67 | 76 | 61 | 78 | 64 | 82 | 54 | 81 | 60 | 72 | 40 | 81 | 60 | 81 | 59 | 81 | 58 |
| 29... | 84 | 65 | 64 | 41 | 87 | 60 | 75 | 43 | 67 | 60 | 75 | 68 | 74 | 68 | 79 | 67 | 75 | 65 | 77 | 66 | 70 | 35 | 77 | 66 | 77 | 53 | 77 | 60 |
| 30... | 65 | 50 | 62 | 38 | 86 | 60 | 71 | 39 | 61 | 48 | 73 | 68 | 76 | 59 | 80 | 61 | 81 | 59 | 74 | 52 | 61 | 33 | 78 | 54 | 66 | 43 | 72 | 47 |
| 31... | 55 | 50 | 64 | 45 | 78 | 50 | 59 | 39 | 58 | 49 | 73 | 65 | 69 | 59 | 74 | 60 | 69 | 56 | 62 | 54 | 63 | 30 | 64 | 54 | 67 | 35 | 60 | 51 |
| Mns | 79.9 | 54.5 | 75.2 | 46.7 | 86.4 | 56.6 | 81.3 | 45.5 | 76.4 | 52.4 | 71.3 | 60.7 | 74.8 | 54.7 | 78.0 | 56.3 | 78.9 | 50.6 | 76.1 | 55.1 | 74.5 | 37.9 | 79.7 | 55.9 | 78.1 | 45.5 | 77.9 | 52.0 |

# Climatological Data for March, 1910.

## DISTRICT No. 9, COLORADO VALLEY,

FREDERICK H. BRANDENBURG, District Editor.

### GENERAL SUMMARY.

The month was remarkable for sustained high temperature, the means in almost all parts of the district being the highest yet observed in March. In many respects the month resembled March, 1900, very closely, but the temperatures in the northern half of the district were materially higher than in that year. The excess in temperature was accompanied by a marked deficit in precipitation; there was no rainfall of importance until near the close of the month. The unusual warmth of the early part of the month caused rapid melting of the snow on the northern watersheds. As a consequence, the streams rose rapidly, and the ice broke up in large masses. Numerous ice gorges formed, backing the water onto the adjacent lands, and several bridges were carried out. Vegetation was more advanced than usual at the close of the month, but not sufficiently forward to be much harmed by the freeze of the 29th and 30th.

### TEMPERATURE.

The mean of the 124 stations reporting was 50.4°, or 5.8° above the normal. The means were, as usual, highest in southern Arizona, but the greatest excesses occurred in the northern part of the district. The highest monthly mean was 72.0° at Casa Grande, Ariz., and the lowest, 24.4°, at Corona, Colo. By subdivisions the means and departures were: Western Wyoming, 33.9°, +8.5°; western Colorado, 39.5°, +6.9°; eastern Utah, 46.1°, +7.0°; western New Mexico, 50.6°, +6.1°; Arizona, 59.5°, +4.9°.

There was a remarkable uniformity in the distribution of the daily departures from normal throughout the district. The opening week was remarkably warm, the 4th being usually the warmest day, with temperatures from 12° to 20° above the normal. From the 8th to 11th it was slightly cooler, but still 4° to 5° above the normal. A second warm wave, with departures about 12° above the normal, occurred from the 12th to the 14th. Slightly cooler weather prevailed on the 15th, after which the temperatures rose steadily until the 21st, reaching their highest on that or the following day. On the 22d temperatures were slightly below the normal in southwestern Arizona for the first time during the month. The fall in temperature continued until the 26th, and the weather remained unusually cold until the 29th. At the close of the month the temperature was rising rapidly, and was above the normal in the extreme south. The highest reading was 100° at Parker, Ariz., on the 2d and subsequent dates, and the lowest, −7°, at Gunnison, Colo., on the 4th.

### PRECIPITATION.

The precipitation during the month was about one-half of the normal, the mean of 174 stations being 0.56 inch, and the deficiency, 0.53 inch. A very few stations in northern Arizona and in Utah reported a slight excess; the greatest deficit occurred in the eastern part of the district, on the slopes of the Continental Divide. By subdivisions the means and departures were: Green, 0.64, −0.57 inch; Grand, 0.64, −0.81 inch; San Juan, 0.81, −0.59 inch; Little Colorado, 0.64, +0.04 inch; Gila and tributaries, 0.44, −0.53 inch; lower Colorado, 0.61, −0.13 inch. The greatest monthly amount was 3.14 inches at Corona, Colo.; 12 stations reported no precipitaion, and about the same number but a trace.

At the close of the month the average depth of snow at the high level stations in western Colorado was 12.6 inches, a decrease of 22 inches since the close of February. Several stations above 9,000 feet in elevation reported no snow except in the timber and on northern slopes.

On the 9th and 10th light snow fell at the higher stations on the Continental Divide; on the 15th there was a moderate fall in the San Juan Mountains and the adjacent parts of Utah and New Mexico. By far the heaviest snow of the month began in Utah and Arizona on the 25th, and extended over the remainder of the district on the 26th. On the 27th and 28th scattered precipitation occurred, and on the 29th the snowfall was generally heavy. At Flagstaff, Ariz., there was 2.13 inches of precipitation in 24 hours on the 25th and 26th, and in the neighboring mountains the fall was correspondingly heavy.

### RIVERS.

The northern tributaries of the Colorado rose rapidly in the early part of the month and caused considerable damage, especially in the valleys of the Gunnison and Yampa. The crest due to this rise reached Yuma on the 15th, the discharge increasing from 7,900 second-feet on the 4th to 40,200 second-feet on the 15th. From the 15th to the close of the month there was a gradual decline. There was a considerable rise in the northern tributaries of the Gila following the heavy precipitation of the 26th. At the Roosevelt Dam there was a net gain of 25,000 acre-feet during the month. In southwestern New Mexico, in the valley of the Mimbres, San Francisco, and upper Gila there was a serious shortage of irrigation water, and stock on the range was reported in poor condition. In this vicinity there has been very little snow during the winter.

### MISCELLANEOUS.

There was a decided excess of sunshine in the northern half of the district, about 22 days being reported clear. At Grand Junction there were 17 days with more than 90 per cent of sunshine. In Arizona the percentage of the possible sunshine ranged from 85 per cent at Flagstaff to 91 per cent at Yuma. The relative humidity was low, especially in the north. There was much high wind from the 22d until the close of the month.

The following account of the March flood in the White River is based on the report forwarded by Mr. T. Baker, Cooperative Observer at Meeker, Col.:

> The flood was due primarily to the steady cold of the winter and the formation of an ice gorge of great depth. Before the thaw the river was frozen to a depth of 10 feet in the main channel, and the adjacent lowlands were covered with water and ice. With the coming of the warm weather early in March, the snow on the mesas and hillsides melted rapidly and the creeks and arroyos soon carried down a greater volume of water than previously known. The channel being filled with ice, the water overspread the lowlands along the river. Many people living in the lowlands had their houses flooded from 1 to 3 feet in depth, the damage extending all the way from Meeker, Colo., to the Utah-Colorado border, a distance of 90 miles. There was no loss of life and but little loss of stock. All the bridges on Pice-ance Creek, an important tributary of the White, were carried out. On the White River proper many bridges were injured, but none carried out, as the authorities had caused them to be raised above the danger limit. The flood was the greatest and most sudden since the settlement of the county.

### THE POWER PROJECTS OF THE SALT RIVER VALLEY, ARIZ.

One of the most interesting features of the Salt River irrigation project, Arizona, is the development of power and the marvelous possibilities in that direction that a study of natural conditions discloses. The original idea of the Government Reclamation engineers was to develop power for pumping purposes only, after using the power developed at the Roosevelt Dam, for construction work. Supervising Engineer L. C. Hill states that there can easily be developed along the Salt River, and the canal system in the valley, between 25,000 and 30,000 horsepower. Four thousand horsepower has already been developed at the Roosevelt Dam, and as soon as the 3 new water wheels are installed, 8,000-horsepower will be available at the dam. Five thousand horsepower will be developed at

once in the valley, making a total of 13,000-horsepower available for all uses. Of this, about 5,000-horsepower will be needed ultimately for pumping. About 1,000-horsepower will be used in irrigating the Gila Indian Reservation, at Sacaton, and the rest will be sold by the Government. Contracts have already been let by the Reclamation Service for furnishing about 2,000-horsepower, and a number of other contracts are now pending. The first contract for power is already yielding returns of about $60,000 per annum.

The Salt River Valley is developing rapidly, and several new electric railways are about to be constructed and old ones extended, and the owners of these lines expect to purchase power from the Government. The net returns from the power plants constitute a credit to the project, and will go far toward reducing the operation, maintenance and construction charges. After the project has been paid for, the entire operation, maintenance and betterment charges may be met by the profits on the power plants. Light and power are already being furnished in the city of Phoenix, and will be leased to the territorial institutions and for various other manufacturing industries

The transmission line, recently completed, extending from Roosevelt Dam, over 100 miles down the Salt River Valley, will transmit power to pump underground water for about 40,000 acres of land, and part of the wells are now sunk. About 10,000 acres will be furnished with water from wells in 1910.

### SNOWFALL IN THE MOUNTAINS OF COLORADO.

The amount of snow in the mountains at the close of March was much less than the normal on all watersheds. In the mountains, in common with the plains region, the weather conditions during the month differed greatly from those that are usual in March. There were few storms, with a correspondingly light snowfall. Bright sunshine and unusual warmth during the greater part of the month melted the snow covering of the higher valleys and unprotected slopes. The attending run-off, much of which was not utilized, would, under normal temperature conditions, have been delayed until April and May. However, melting has not yet begun at the very high altitudes, and only in a moderate degree in the timber and on northern slopes.

### SNOWFALL IN ARIZONA.

The snowfall for March, 1910, was below the normal; being slightly greater than the amounts measured in February, 1910, and decidedly less than the measurements of March, 1909. Light snow fell over the southern counties on the 18th and 19th; copious rain fell over the central and northern counties on the 25th, changing into heavy snowfall in the Bradshaw, the White Mountain, the San Francisco and Mogollan ranges during the night of the 25th and the 26th, continuing to the 28th, and light snowfall in the mountain sections of the southeastern counties. The snow is soft and has begun to melt rapidly at and below the 8,500-foot level. Fully 95 per cent of the snow fell late on the 25th, the 26th, 27th, and 28th, depositing an average depth of about 10 to 40 inches in the mountain regions, much of which disappeared during the last 3 days of the month. At the higher levels the surface snow has thawed and frozen alternately, causing it to pack and settle.

There was a good run-off into the river beds of the central and northern counties on the 29th, 30th, and 31st, continuing into April, thus affording a moderate volume of water for all general purposes. Conditions are somewhat different in the southern section of the Territory, where the precipitation has been largely deficient since the first of the year; the river beds are almost dry, and range grass has not yet begun to sprout.

The present water supply is fully 50 per cent less than that available during the same period of last year, and there are prospects of a further shortage in the water supply of the Gila, the Salt, and Verde drainage areas during the late spring and early summer months.

The snow will melt unusually early this season. There will be a moderate flow of water in the Colorado River during the coming summer months, while for the same period, in the Little Colorado River drainage area, there will be a shortage.

There is a marked improvement in the ranges throughout the central and northern counties.

The average depth of snow in the valleys and mountains at the end of the month was about as follows: In the Salt and Verde area, in valleys, trace, in mountains, 4.6 inches; Gila area, in valleys, 0.0 inch, in mountains, 4.7 inches; Agua Fria and Hassayampa area, in valleys, trace, in mountains, 0.2 inch; Little Colorado area, in valleys, 0.7 inch, in mountains, 35.2 inches.

### THE CANYON DIABLO METEORITE.

Under operation, in Coconino County, near Canyon Diablo, Ariz., at the present time, is one of the most novel and important mining projects that has ever been undertaken in the southwest, that of the attempt to recover a large meteorite which is supposed to be imbedded in the ground at the point now being worked.

This gigantic mining task is under the supervision of Mr. S. P. Holsinger, a prominent mining engineer of the northern part of the Territory, well known in business circles.

In speaking of this movement, Mr. Holsinger stated that it was his firm belief, supported by the theories of many scientific men, that the immense displacement in evidence at the point he is sinking on, is not an extinct crater, but that the large opening is, in reality, due to the intrusion of the soil by a meteorite that entered the ground generations ago.

From rim to rim this opening is about 4,900 feet, and from what Mr. Holsinger can learn, it is supposed that the meteorite is lying at a depth practically of 600 feet. The dimensions of this heavenly body is computed as at least 300 feet in diameter, and has value in the minerals it holds, especially in nickel, at several hundreds of thousands of dollars.

Up to the present time the depth, in a vertical shaft, reached is about 200 feet, where a body of water was encountered. Pumping machinery is to be introduced, when sinking will be resumed. The formation favors this noteworthy work of exploitation; and, if the large ball is recovered, individual achievement will be handsomely rewarded.

TABLE 1.—*Climatological data for March, 1910. District No. 9, Colorado Valley.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Wyoming.* | | | | | | | | | | | | | | | | | | | | |
| Daniel | Uinta | 6,740 | 11 | 29.2 | + 7.9 | 57 | 21 | − 1 | 10 | 45 | 1.90 | + 0.67 | 0.80 | 19.0 | 4 | 16 | 14 | 1 | nw. | J. M. Van Dervort. |
| Dixon | Carbon | | | | | | | | | | | | | | | | | | | Chas. Spillman. |
| Eden | Sweetwater | 6,577 | 2 | 33.6 | | 66 | 20 | 14 | 30† | 41 | 0.49 | | 0.40 | 1.0 | 2 | 18 | 9 | 4 | w. | Eden Valley L. and I. Co. |
| Green River | do | 6,083 | 5 | 42.8 | + 9.1 | 75 | 20 | 16 | 30 | 46 | 0.04 | − 0.62 | 0.02 | 0.2 | 3 | 22 | 4 | 5 | w. | Geo. H. Maxon. |
| Kendall | Fremont | 7,630 | | | | | | | | | | | | | | | | | | Art. Doyle. |
| Pinedale | do | 7,167 | 4 | 30.0 | | 59 | 20 | 2 | 11† | 42 | 0.26 | | 0.10 | 6.0 | 3 | 17 | 13 | 1 | nw. | U. S. Forest Service. |
| Rambler | Carbon | 9,232 | | | | | | | | | 1.60 | | 0.90 | 17.5 | 3 | 20 | 8 | 3 | w. | J. C. Fothergill. |
| *Colorado.* | | | | | | | | | | | | | | | | | | | | |
| Ashcroft | Pitkin | 9,483 | 8 | 31.4 | | 60 | 21 | 2 | 30 | 39 | 0.59 | | 0.16 | 8.0 | 5 | | | | | Dan McArthur. |
| Breckenridge | Summit | 9,536 | 20 | 29.4 | + 6.3 | 55 | 22 | − 3 | 30 | 44 | 0.33 | − 2.72 | 0.24 | 4.4 | 2 | 10 | 15 | 6 | nw. | Mrs. J. G. Thompson. |
| Cascade‖ | San Juan | 8,900 | 4 | | | | | | | | | | | | | | | | | San Juan P. and W. Co. |
| Chromo | Archuleta | 7,500 | 4 | | | | | | | | | | | | | | | | | Lawrence Nolan. |
| Cochetopa | Saguache | 9,088 | | | | | | | | | 0.25 | | 0.15 | 4.0 | 2 | 13 | 15 | 3 | nw. | Bessie McDonough. |
| Collbran | Mesa | 6,000 | 17 | 45.4 | | 70 | 20† | 19 | 30 | 32 | 0.14 | − 1.70 | 0.09 | 0.0 | 3 | 26 | 1 | 4 | sw. | A. A. Wood. |
| Columbine | Routt | 8,766 | | | | | | | | | 1.13 | | 0.39 | 11.2 | 4 | 18 | 11 | 2 | sw. | Mrs. M. A. Caron. |
| Columbine Ranch | Delta | 6,925 | | | | | | | | | 0.41 | | 0.32 | 3.0 | 2 | 22 | 6 | 3 | s. | Geo. W. Wade. |
| Corona | Grand | 11,660 | 3 | 24.4 | | 44 | 19† | − 1 | 30 | 28 | 3.14 | | 0.88 | 32.2 | 7 | 21 | 4 | 6 | w. | U. S. Weather Bureau. |
| Crawford (near) | Montrose | 6,600 | | 43.1 | | 67 | 22 | 18 | 30 | 32 | 0.12 | | 0.12 | 0.0 | 1 | 25 | 2 | 4 | | C. W. Roe. |
| Crested Butte | Gunnison | 8,867 | | 27.8 | | 56 | 22 | 0 | 10 | 41 | 0.62 | | 0.37 | 0.0 | 2 | 26 | 2 | 3 | | Charles L. Ross. |
| De Beque | Mesa | 4,935 | | 49.3 | | 76 | 16† | 25 | 31 | 49 | 0.31 | | 0.30 | T. | 2 | 26 | 1 | 4 | | C. M. Paine. |
| Delta | Delta | 4,965 | 19 | 48.4 | + 7.2 | 79 | 21 | 19 | 10 | 50 | T. | − 0.60 | T. | 0.0 | 0 | 26 | 4 | 1 | | E. M. Getts. |
| Dillon | Summit | 8,800 | 1 | | | | | | | | 0.50 | | 0.33 | 6.0 | 2 | 23 | 6 | 2 | n. | Harry T. Hamilton. |
| Dolores | Montezuma | 6,500 | 1 | 49.5 | | 74 | 22 | 26 | 6 | 41 | 0.75 | | 0.34 | 0.8 | 3 | 14 | 14 | 3 | nw. | Geo. R. Simmons, jr. |
| Durango | La Plata | 6,534 | 17 | 44.4 | + 6.9 | 70 | 19 | 22 | 31 | 39 | 0.64 | − 1.02 | 0.34 | 1.3 | 5 | 14 | 15 | 2 | nw. | U. S. Weather Bureau. |
| Eagle | Eagle | 6,598 | 5 | 38.8 | | 68 | 21 | 16 | 31 | 46 | T. | | T. | T. | 0 | 26 | 2 | 3 | w. | J. M. Witteman. |
| Eureka‖ | San Juan | 10,000 | 3 | | | | | | | | | | | | | | | | | San Juan P. & W. Co. |
| Fraser | Grand | | | 29.0 | | 60 | 22 | − 2 | 30 | 44 | 0.40 | | 0.20 | 4.1 | 3 | 24 | 4 | 3 | n. | L. D. C. Gaskill. |
| Fruita | Mesa | 4,510 | 11 | 48.8 | + 6.7 | 78 | 21† | 20 | 30 | 44 | 0.28 | − 0.77 | 0.28 | 0.0 | 1 | 23 | 4 | 4 | nw. | J. B. Willsea. |
| Gladstone ‖ | San Juan | 10,400 | 3 | | | | | | | | | | | | | | | | | San Juan P. & W. Co. |
| Glenwood Springs (near) | Garfield | 5,823 | 12 | 43.8 | + 5.0 | 73 | 20† | 19 | 31 | 44 | 0.44 | − 0.68 | 0.40 | 0.0 | 2 | 26 | 1 | 4 | w. | E. A. O'Neil. |
| Grand Junction | Mesa | 4,608 | 19 | 51.2 | + 7.7 | 77 | 21 | 25 | 30 | 35 | 0.11 | − 0.60 | 0.11 | T. | 1 | 23 | 4 | 4 | nw. | U. S. Weather Bureau. |
| Grandlake | Grand | 8,153 | 2 | | | | | | | | 0.75 | | 0.50 | 8.5 | 2 | 28 | 1 | 2 | | Mrs. Belle Kauffman. |
| Grand Valley | Garfield | 5,089 | 18 | 48.3 | + 9.0 | 77 | 20† | 24 | 31 | 45 | 0.36 | − 9.05 | 0.30 | 0.0 | 4 | 23 | 4 | 4 | | David Evans. |
| Gunnison | Gunnison | 7,670 | 17 | 26.8 | − 0.1 | 60 | 21 | − 7 | 4 | 43 | 0.05 | − 0.60 | 0.05 | T. | 1 | 28 | 2 | 1 | sw. | Clarence Adams. |
| Hayden | Routt | 6,337 | 1 | | | | | | | | | | | | | | | | | C. W. Harkness. |
| Hesperus | La Plata | 8,870 | 11 | | | | | | | | | | | | | | | | | John S. Spear. |
| Horsefly | Montrose | 8,700 | | | | | | | | | | | | | | | | | | L. J. Finch. |
| Ironton | Ouray | 10,009 | | | | | | | | | 1.62 | | 1.00 | 19.2 | 3 | 19 | 8 | 4 | sw. | P. H. Foley. |
| Kremmling (near) | Grand | 7,337 | 2 | 37.2 | | 65 | 20† | 10 | 30 | 43 | 0.30 | | 0.20 | 4.0 | 2 | 19 | 6 | 6 | | H. A. Howe. |
| Lake City | Hinsdale | 8,686 | 5 | 36.2 | | 63 | 6 | 8 | 30 | 44 | 1.05 | | 0.35 | 9.6 | 6 | 20 | 7 | 4 | n. | J. F. Maurer. |
| Lay | Routt | 6,190 | 16 | 39.8 | + 8.8 | 69 | 20 | 15 | 30 | 47 | 0.38 | − 1.22 | 0.22 | 2.0 | 3 | 24 | 2 | 5 | sw. | A. G. Wallihan. |
| Leal | Grand | 8,750 | | | | | | | | | 0.80 | | 0.60 | 7.0 | 3 | 25 | 5 | 1 | | L. J. Wade. |
| Lujane | Montrose | 6,620 | 4 | 45.6 | | 71 | 21† | 18 | 5 | 51 | 0.18 | | 0.18 | 1.5 | 2 | 24 | 5 | 2 | sw. | U. S. Reclamation Service. |
| Mancos | Montezuma | 6,960 | 11 | 44.4 | + 6.9 | 70 | 20 | 10 | 30 | 38 | 1.46 | − 0.68 | 0.64 | 9.5 | 4 | 20 | 8 | 3 | sw. | B. M. Krumpanitsky. |
| Marble | Gunnison | 7,951 | 1 | 38.2 | | 62 | 20† | 4 | 10 | 43 | 0.47 | | 0.28 | 9.0 | 5 | 21 | 6 | 4 | ne. | Homer Harrington. |
| Marshall Pass | Saguache | 10,846 | 7 | | | | | | | | 0.58 | | 0.58 | 18.0 | 2 | 22 | 5 | 4 | w. | William D. Lillard. |
| Meeker | Rio Blanco | 6,182 | 18 | 42.3 | + 8.2 | 72 | 20 | 15 | 30 | 44 | 0.24 | − 1.44 | 0.10 | T. | 3 | 23 | 5 | 3 | sw. | T. Baker. |
| Montrose (near) | Montrose | 5,811 | 21 | 44.2 | + 4.6 | 72 | 21† | 18 | 30 | 44 | 0.00 | − 0.78 | 0.00 | 0.0 | 0 | 23 | 6 | 2 | | R. Butterfield. |
| Nast | Pitkin | 7,953 | | 32.0 | | 57 | 21 | 1 | 10 | 39 | 0.59 | | 0.42 | 6.7 | 2 | 25 | 3 | 3 | w. | Arthur Hanthorn. |
| Pagoda | Routt | 6,500 | 19 | 41.1 | + 9.5 | 70 | 20 | 4 | 30 | 42 | 1.30 | − 0.86 | 0.80 | 11.0 | 2 | 27 | 1 | 3 | | Shaw Brothers. |
| Pagosa Springs | Archuleta | 7,108 | 3 | 38.7 | | 67 | 19† | 6 | 1 | 48 | 0.76 | | 0.43 | 4.0 | 3 | 20 | 4 | 7 | sw. | E. T. Walker. |
| Paonia | Delta | 5,694 | 15 | 49.0 | | 75 | 20† | 20 | 30 | 38 | 0.23 | − 0.80 | 0.23 | T. | 1 | 17 | 10 | 4 | sw. | J. M. Underwood. |
| Parshall | Grand | | 1 | | | | | | | | 0.11 | | 0.06 | 2.0 | 2 | | | | | F. A. Field. |
| Pitkin | Gunnison | 9,500 | 1 | | | | | | | | 0.42 | | 0.21 | 4.2 | 3 | 20 | 5 | 6 | s. | Mrs. Maggie Cammann. |
| Rangely | Rio Blanco | 5,050 | 11 | 43.3 | +10.3 | 74 | 21† | 15 | 1† | 41 | 0.39 | − 0.67 | 0.39 | T. | 1 | 13 | 14 | 4 | w. | Mrs. C. P. Hill. |
| Redcliff | Eagle | 8,695 | 15 | | | | | | | | 2.10 | + 0.10 | 0.80 | 24.5 | 5 | 22 | 3 | 6 | | Dorothea Greiner. |
| Rico | Dolores | 8,824 | 8 | | | | | | | | 1.00 | | 0.31 | 14.2 | 4 | 18 | 9 | 4 | sw. | Clinton B. Smith. |
| River Portal | Montrose | 6,570 | 4 | 42.4 | | 71 | 20 | 19 | 9 | 40 | 0.18 | | 0.18 | 1.3 | 1 | 25 | 2 | 4 | | U. S. Reclamation Service. |
| Sapinero | Gunnison | 8,125 | 8 | 32.5 | | 58 | 22 | 9 | 30 | 36 | 1.04 | | 0.58 | 8.4 | 5 | 23 | 4 | 4 | w. | W.F. Irving. |
| Shoshone | Garfield | 6,110 | | | | | | | | | 0.45 | | 0.43 | T. | 2 | 15 | 12 | 4 | | Central Colo. Power Co. |
| Silt | do | 5,441 | 13 | | | | | | | | | | | | | | | | | W. S. Park. |
| Silverton (1) | San Juan | 9,285 | 6 | 32.5 | | 60 | 19† | − 2 | 27 | 53 | 2.30 | | 0.90 | 20.2 | 6 | 25 | 1 | 5 | sw. | A. P. Root, jr. |
| Silverton (near) ‖ | do | 9,400 | 3 | | | | | | | | | | | | | | | | | San Juan P. & W. Co. |
| Spruce Lodge | Grand | 9,600 | 2 | | | | | | | | 1.33 | | 0.59 | 15.0 | 7 | | | | | H. J. Wills. |
| Steamboat Springs | Routt | 6,683 | 7 | 34.6 | | 64 | 22 | 4 | 10 | 46 | 0.49 | | 0.24 | 3.0 | 4 | 26 | 1 | 4 | | M. E. Houston. |
| Tacoma ‖ | La Plata | 7,300 | 3 | | | | | | | | | | | | | | | | | San Juan P. & W. Co. |
| Terminal Dam ‖ | do | 8,300 | 3 | | | | | | | | | | | | | | | | | Do. |
| Uncompahgre Plateau | Montrose | 8,400 | | | | | | | | | 0.72 | | 0.46 | 8.2 | 3 | 16 | 11 | 4 | sw. | Martin Esser. |
| Whitepine | Gunnison | 9,500 | 10 | 28.4 | | 52 | 21 | − 5 | 30 | 38 | 0.64 | | 0.50 | 8.0 | 2 | 24 | 4 | 3 | s. | C. E. Macy. |
| Yampa | Routt | 8,000 | 1 | | | | | | | | 0.26 | | 0.18 | 3.2 | 3 | 16 | 11 | 4 | s. | Percy A. Hughes. |
| *Utah.* | | | | | | | | | | | | | | | | | | | | |
| Baker | San Juan | 7,560 | 1 | | | | | | | | 2.00 | | 1.95 | 1.5 | 2 | 23 | 2 | 6 | s. | Maude A. Palmer. |
| Basin | Grand | 9,500 | 1 | | | | | | | | 2.60 | | 1.32 | 26.0 | 6 | 13 | 5 | 3 | sw | E. H. Wolf. |
| Castle Dale | Emery | 5,500 | 11 | 42.4 | | 74 | 21 | 12 | 3 | 48 | 0.50 | | 0.30 | 0.0 | 3 | 24 | 7 | 0 | | James Jeffs. |
| Emery | do | 6,260 | 10 | 45.4 | | 70 | 20 | 20 | 23† | 42 | T. | | T. | 0.0 | 0 | 27 | 0 | 4 | n. | H. C. Wickman. |
| Escalante | Garfield | 5,700 | 10 | 49.6 | | 80 | 6 | 20 | 30 | 48 | 0.32 | | 0.32 | | 1 | 24 | 0 | 7 | | Geo. H. Barney. |
| Fort Duchesne | Uinta | 5,000 | 22 | 44.3 | + 8.1 | 76 | 20 | 16 | 30 | 45 | 0.12 | − 0.55 | 0.10 | 0.0 | 2 | 16 | 13 | 2 | nw. | B. F. Mudd. |
| Grayson | San Juan | 5,750 | 6 | 47.1 | | 71 | 22 | 25 | 27 | 36 | 1.80 | | 1.00 | 0.0 | 3 | 24 | 2 | 5 | s. | Joseph A. Lyman. |
| Green River | Emery | 4,080 | 13 | 52.2 | + 5.4 | 83 | 21 | 19 | 11 | 52 | 0.73 | + 0.39 | 0.73 | 0.0 | 1 | 24 | 7 | 0 | sw. | B. F. Miller. |
| Hanksville | Wayne | | | | | | | | | | 0.23 | | 0.15 | 0.0 | 2 | | | | | F. G. Weber. |
| Hite | Garfield | 3,000 | 11 | 55.4 | | 83 | 21 | 32 | 11 | 40 | 0.87 | | 0.76 | 0.0 | 3 | 23 | 8 | 0 | | John P. Hite. |
| La Sal | San Juan | 7,000 | 10 | 43.8 | | 69 | 19 | 20 | 30 | 32 | 0.59 | | 0.49 | 4.0 | 3 | 12 | 14 | 5 | | Gertrude W. Carpenter. |
| Los | Wayne | 7,000 | 18 | 39.2 | + 7.4 | 62 | 5† | 5 | 29 | 45 | 0.20 | − 0.48 | 0.10 | 0.0 | 2 | | | | | Michael Hansen. |
| Mill Canyon | Washington | 8,400 | | | | | | | | | 2.90 | | 1.60 | 22.0 | 5 | 15 | 10 | 6 | | J. A. Gardner. |
| Moab | Grand | 4,000 | 21 | 52.1 | + 5.5 | 84 | 21 | 25 | 11 | 46 | 1.31 | + 0.40 | 1.08 | T. | 3 | 14 | 12 | 5 | | Henry Crouse. |
| Monticello | San Juan | | 2 | | | | | | | | | | | | | | | | | D. B. Perkins. |
| Orderville | Kane | | | | | | | | | | 1.00 | | 0.65 | 1.2 | 7 | | | | | F. A. Porter. |
| Price | Carbon | 5,557 | | | | | | | | | | | | | | | | | | C. A. Guiwits. |
| Ranch | Kane | 6,700 | 9 | 40.6 | | 67 | 6† | 15 | 24† | 42 | 0.42 | | 0.42 | 0.0 | 1 | 23 | 7 | 1 | w. | J. W. Seaman. |
| Saint George | Washington | 2,880 | 29 | 54.8 | + 5.7 | 85 | 21 | 27 | 11 | 52 | 1.08 | + 0.36 | 0.72 | 0.0 | 3 | 15 | 12 | 4 | | Joseph T. Atkin. |
| Scofield | Carbon | 7,625 | 2 | | | | | | | | | | | | | | | | | O. E. Jorgensen. |
| Springdale | Washington | | 3 | | | | | | | | | | | | | | | | | Wm. W. Flanigan. |
| Strawberry | Wasatch | | 4 | 38.0 | | 59 | 20† | 12 | 30 | 33 | 1.30 | | 0.40 | 13.0 | 6 | 13 | 11 | 7 | | U. S. Reclamation Service. |
| Sunnyside | Carbon | 5,280 | 2 | | | | | | | | 0.35 | | 0.30 | 3.5 | 2 | | | | | Henry Cullum. |
| Teasdale | Wayne | 7,000 | 2 | | | | | | | | | | | | | | | | | Josiah Shurtz. |
| Theodore | Wasatch | 5,507 | 5 | 43.0 | | 71 | 20 | 18 | 30 | 42 | 0.29 | | 0.19 | T. | 3 | 10 | 17 | 4 | | M. M. Smith. |
| Tropic | Garfield | 7,000 | 13 | 45.1 | + 8.3 | 70 | 7 | 21 | 24 | 40 | 1.13 | + 0.36 | 0.76 | 2.0 | 3 | 14 | 14 | 3 | nw. | E. P. Bolton. |

TABLE 1.—*Climatological data for March, 1910. District No. 9*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Sky. | | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | Number of rainy days, .01 inch or more. | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Utah*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Vernal | Uinta | 5,050 | 15 | 44.8 | + 8.8 | 75 | 20† | 19 | 30 | 44 | 0.07 | − 0.86 | 0.07 | 0.0 | 1 | 22 | 7 | 2 | ..... | Joab Collier. |
| *New Mexico.* | | | | | | | | | | | | | | | | | | | | |
| Alma | Socorro | 5,500 | 11 | 53.0 | + 6.2 | 85 | 6† | 21 | 5† | 63 | 0.10 | − 0.79 | 0.10 | 0.0 | 1 | 8 | 20 | 3 | sw. | M. A. Balke. |
| Aragon | ...do | 5,856 | 3 | 40.6 | ..... | 71 | 5 | 6 | 11 | 51 | 0.75 | ..... | 0.75 | 7.0 | 1 | 14 | 15 | 2 | sw. | John R. Milligan. |
| Blackrock | McKinley | 6,500 | 2 | 49.3 | ..... | 73 | 5† | 23 | 2† | 44 | 0.29 | ..... | 0.15 | 2.5 | 3 | 11 | 20 | 0 | ..... | Wm. J. Oliver. |
| Bloomfield | San Juan | 5,500 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Fred Le Clerc. |
| Cambray | Luna | 4,215 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.08 | − 0.31 | 0.08 | 0.0 | 1 | 17 | 13 | 1 | w. | Southern Pacific Co. |
| Columbus | ...do | 4,054 | ..... | ..... | ..... | 84 | 25 | 30 | 30 | .... | 1.13 | ..... | 1.10 | 0.0 | 2 | 19 | 5 | 7 | w. | El Paso & Southwest. R.R |
| Deming | ...do | 4,333 | 33 | 57.2 | ..... | 88 | 8 | 28 | 29† | 51 | 0.19 | − 0.29 | 0.19 | 0.0 | 1 | 18 | 8 | 5 | w. | Southern Pacific Co. |
| Dulce | Rio Arriba | 6,767 | 12 | 43.3 | + 9.7 | 82 | 24 | 16 | 1 | 50 | 0.82 | − 0.41 | 0.35 | 4.0 | 4 | 17 | 8 | 6 | w. | John M. Commons. |
| Fort Bayard | Grant | 6,152 | 35 | 55.0 | + 8.9 | 79 | 6† | 25 | 28 | 38 | T. | − 0.66 | T. | T. | 0 | 24 | 7 | 0 | w. | U. S. Gen'l. Hospital. |
| Fort Wingate | McKinley | 6,997 | 46 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Post Hospital. |
| Fruitland | San Juan | 4,800 | 17 | 49.6 | + 5.8 | 81 | 22 | 19 | 30 | 50 | 0.05 | − 0.25 | 0.05 | 0.0 | 1 | 22 | 5 | 4 | nw. | Cyril James Collyer. |
| Gage | Luna | 4,486 | 3 | 56.8 | ..... | 85 | 5† | 27 | 27 | 48 | 0.20 | − 0.47 | 0.20 | 0.0 | 1 | 20 | 8 | 3 | e. | Southern Pacific Co. |
| Gila (near) | Grant | 4,470 | 11 | 54.0 | + 3.0 | 87 | 5 | 22 | 26† | 61 | 0.00 | − 0.64 | 0.00 | 0.0 | 0 | ..... | ..... | ..... | ..... | Miss Cozella Clark. |
| Hachita | ...do | 4,504 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.36 | ..... | 0.31 | 0.0 | 2 | 19 | 9 | 3 | sw. | El Paso & Southwest. R.R. |
| Haynes | Rio Arriba | 6,600 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.69 | ..... | 0.34 | 3.4 | 5 | 27 | 3 | 1 | nw. | Dr. John Roger Haynes. |
| Hermanes | Luna | 4,451 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | 0.0 | 0 | 25 | 3 | 3 | w. | El Paso & Southwest. R.R. |
| Lordsburg | Grant | 4,245 | 10 | 56.6 | + 3.2 | 87 | 5 | 26 | 28 | 53 | 0.00 | − 0.51 | 0.00 | 0.0 | 0 | 24 | 2 | 5 | sw. | Southern Pacific Co. |
| Luna (near) | Socorro | 7,300 | 5 | 41.8 | ..... | 71 | 6† | 12 | 27† | 52 | T. | ..... | T. | T. | 0 | 4 | 27 | 0 | w. | C. B. Martin. |
| Manuelito | McKinley | 6,252 | 5 | 50.0a | ..... | 76a | 6 | 17a | 11† | 57a | T. | ..... | T. | T. | 0 | 15 | 8 | 8 | w. | Mrs. H. F. Trick. |
| Mimbres | Grant | 5,007 | 5 | ..... | ..... | ..... | ..... | 22 | 30 | .... | 0.00 | ..... | 0.00 | 0.0 | 0 | 22 | 7 | 2 | sw. | Chas. Dennis. |
| Pratt | ...do | 4,415 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 28 | 2 | 1 | sw. | El Paso & Southwest. R.R. |
| Putnam | San Juan | 6,200 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.19 | ..... | 0.14 | 0.0 | 3 | 24 | 6 | 1 | w. | Richard Wetherill. |
| Redrock | Grant | 4,150 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 16 | 12 | 3 | ..... | Robert N. Woods. |
| Rodeo | ...do | 4,118 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.19 | ..... | 0.16 | 0.0 | 2 | ..... | ..... | ..... | ..... | El Paso & Southwest. R.R. |
| Rosa | Rio Arriba | 6,000 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.03 | ..... | 0.02 | 0.8 | 2 | 27 | 0 | 4 | ..... | B. A. Candelaria. |
| *Arizona.* | | | | | | | | | | | | | | | | | | | | |
| Allaires Ranch | Cochise | 4,184 | 14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.12 | − 0.63 | 0.12 | T. | 1 | 25 | 3 | 3 | w. | Thos. Allaire. |
| Arizona Canal Dam | Maricopa | 1,372 | 15 | 66.2 | + 5.3 | 94 | 21 | 43 | 28 | 43 | 1.00 | + 0.13 | 0.80 | 0.0 | 3 | 15 | 4 | 2 | s. | U.S. Reclamation Service. |
| Aztec | Yuma | 492 | 12 | 64.4 | + 0.9 | 96 | 5 | 36 | 27† | 51 | 0.10 | − 0.28 | 0.10 | 0.0 | 1 | 22 | 2 | 7 | w. | Southern Pacific Co. |
| Benson | Cochise | 3,523 | 28 | 60.0 | + 3.7 | 91 | 7† | 30 | 27 | 51 | 0.13 | − 0.38 | 0.08 | 0.0 | 2 | 17 | 10 | 4 | e. | Southern Pacific Co. |
| Bisbee | ...do | 5,500 | 20 | 56.9 | + 4.8 | 78 | 3† | 31 | 29 | 32 | 0.07 | − 1.03 | 0.04 | 0.0 | 2 | 24 | 5 | 2 | w. | Rev. J. G. Pritchard. |
| Bonita | Graham | 4,916 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | − 0.86 | 0.00 | 0.0 | 0 | 19 | 4 | 8 | w. | A. Johnson & Co. |
| Bowie | Cochise | 3,756 | 33 | 63.7 | + 8.8 | 89 | 6 | 38 | 12 | 48 | 0.00 | − 1.06 | 0.00 | 0.0 | 0 | 25 | 0 | 6 | e. | Southern Pacific Co. |
| Buckeye | Maricopa | 980 | 17 | 63.2 | + 3.5 | 94 | 8† | 35 | 28 | 54 | 0.18 | − 0.51 | 0.18 | 0.0 | 1 | 26 | 4 | 1 | sw. | H. E. Kell. |
| Canille | Santa Cruz | 5,225 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.50 | ..... | 0.30 | T. | 2 | 15 | 14 | 2 | sw. | R. A. Rodgers. |
| Casa Grande | Pinal | 1,396 | 28 | 72.0 | + 9.9 | 99 | 13† | 38 | 25 | 41 | 0.75 | + 0.30 | 0.75 | 0.0 | 1 | 25 | 4 | 2 | w. | Southern Pacific Co. |
| Cave Creek | Maricopa | 1,523 | 3 | 62.2 | ..... | 91 | 6† | 33 | 27 | 48 | 1.00 | ..... | 0.78 | 0.0 | 2 | 23 | 6 | 2 | ..... | E. A. Howard |
| Chin Lee | Apache | 6,000 | 2 | 46.3 | ..... | 77 | 5 | 11 | 30 | 40 | 0.12 | ..... | 0.12 | T. | 1 | 15 | 10 | 6 | n. | Fr. L. Ostermann, O. F. M. |
| Chlarsons Mill | Graham | 8,000 | 3 | 48.8 | ..... | 80 | 20 | 19 | 27 | 47 | 2.54 | ..... | 0.95 | 19.0 | 4 | 19 | 8 | 4 | ..... | H. R. Chlarson. |
| Clifton | Graham | 2,584 | 19 | 66.6 | ..... | 91 | 5 | 39 | 30 | 46 | 0.04 | − 0.87 | 0.04 | 0.0 | 1 | 19 | 8 | 4 | ..... | P. Reisinger. |
| Cline | Gila | 2,300 | 10 | 61.8 | + 5.9 | 90 | 6 | 34 | 27 | 52 | 1.29 | − 0.16 | 1.22 | 0.0 | 3 | 14 | 12 | 5 | sw. | W. M. Clanton. |
| Cochise | Cochise | 4,219 | 11 | 54.6 | + 0.8 | 85 | 3† | 24 | 31 | 55 | 0.10 | − 0.68 | 0.10 | 0.0 | 1 | 23 | 7 | 1 | se. | Southern Pacific Co. |
| Columbia | Yavapai | 1,900 | 11 | 66.6 | + 8.0 | 92 | 6† | 40 | 26† | 36 | 0.62 | − 0.85 | 0.55 | 0.0 | 2 | 22 | 6 | 3 | s. | M. J. Nolan. |
| Congress | ...do | 3,688 | 14 | 62.2 | + 5.6 | 84 | 5† | 35 | 26 | 29 | 0.40 | − 0.92 | 0.35 | 0.0 | 2 | 20 | 8 | 3 | sw. | Congress Mine. |
| Courtland | Cochise | 4,543 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.25 | ..... | 0.25 | 0.0 | 1 | 23 | 5 | 3 | sw. | El Paso & Southwest. R.R. |
| Dos Cabezos | ...do | 5,250 | 2 | 54.4 | ..... | 82 | 22 | 23 | 30 | 48 | 0.15 | ..... | 0.15 | 0.0 | 1 | 24 | 4 | 3 | e. | N. Erickson. |
| Douglas | ...do | 3,930 | 7 | 60.6 | ..... | 91 | 5 | 28 | 27 | 56 | 0.10 | ..... | 0.10 | 0.0 | 1 | 21 | 9 | 1 | sw. | Dr. F. T. Wright. |
| Dudleyville | Pinal | 2,204 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | G. F. Cook. |
| Fairbank | Cochise | 3,862 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | T. | 0.0 | 0 | 20 | 2 | 9 | ..... | El Paso & Southwest. R.R. |
| Flagstaff (1) | Coconino | 6,907 | 18 | 41.1 | + 5.2 | 68 | 4 | 3 | 27 | 43 | 2.65 | + 0.84 | 2.13 | 18.5 | 4 | 15 | 8 | 8 | nw. | U. S. Weather Bureau. |
| Florence | Pinal | 1,504 | 11 | 68.6 | + 8.9 | 99 | 4 | 38 | 1† | 52 | 0.45 | − 0.47 | 0.45 | 0.0 | 1 | 19 | 6 | 6 | w. | Pacific & Eastern R. R. |
| Fort Apache | Navajo | 5,200 | 39 | 51.3 | + 5.4 | 82 | 6† | 23 | 30 | 53 | 0.62 | − 0.90 | 0.60 | T. | 2 | 13 | 17 | 1 | ne. | Post Hospital. |
| Fort Huachuca | Cochise | 5,100 | 25 | 60.6 | + 7.9 | 87 | 7 | 31 | 30 | 45 | T. | − 1.01 | T. | 0.0 | 0 | 29 | 1 | 1 | se. | Post Hospital. |
| Fort Mohave | Mohave | 604 | 39 | 66.0 | + 2.7 | 94 | 5 | 34 | 1 | 56 | 0.06 | − 0.38 | 0.06 | 0.0 | 1 | 26 | 4 | 1 | ..... | A. F. Duclos. |
| Gilabend | Maricopa | 737 | 19 | 68.6 | + 5.5 | 98 | 6 | 43 | 8† | 49 | 0.20 | − 0.42 | 0 '8 | 0.0 | 2 | 21 | 7 | 3 | ..... | Southern Pacific Co. |
| Globe | Gila | 3,523 | 9 | 59.9 | ..... | 86 | 4† | 34 | 26† | 42 | 0.74 | ..... | 0.67 | 0.0 | 2 | 14 | 14 | 3 | nw. | Dr. B. G. Fox. |
| Grand Canyon | Coconino | 6,866 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Grand Canyon Ry. |
| Greer | Apache | 9,200 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.55 | ..... | 0.30 | 5.5 | 3 | 22 | 6 | 3 | s. | Mrs. M. Butler. |
| Hereford | Cochise | 4,180 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 25 | 5 | 1 | ..... | El Paso & Southwest. R.R. |
| Holbrook | Navajo | 5,069 | 21 | 51.4 | + 5.5 | 82 | 5 | 19 | 30 | 52 | 0.54 | − 0.10 | 0.31 | 0.0 | 2 | 26 | 2 | 3 | sw. | T. Larson. |
| Intake | Gila | 2,230 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.00 | ..... | 0.70 | 0.0 | 3 | 27 | 3 | 1 | w. | A. J. Robinson. |
| Jerome | Yavapai | 4,743 | 13 | 57.6 | + 6.1 | 81 | 5 | 30 | 28 | 28 | 2.48 | + 0.64 | 1.30 | 2.7 | 4 | 18 | 11 | 2 | w. | Dr. L. A. Hawkins. |
| Keams Canyon | Navajo | ..... | 6 | 47.2 | ..... | 73 | 5† | 23 | 11 | 43 | 0.35 | ..... | 0.32 | T. | 2 | 26 | 5 | 0 | se. | L. R. Ballard. |
| Kingman | Mohave | 3,326 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. R. Gooding. |
| Lewis Springs | Cochise | 4,029 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.01 | ..... | 0.01 | 0.0 | 1 | 17 | 13 | 1 | s. | El Paso & Southwest. R.R. |
| Maricopa | Pinal | 1,186 | 33 | 67.0 | + 5.2 | 95 | 2† | 44 | 12† | 44 | 0.38 | − 0.08 | 0.32 | 0.0 | 2 | 22 | 3 | 6 | w. | Southern Pacific Co. |
| Mesa | Maricopa | 1,244 | 14 | 66.2 | + 6.7 | 96 | 20 | 41 | 17 | 47 | 0.79 | + 0.01 | 0.72 | T. | 2 | 17 | 13 | 1 | se. | C. L. Diehl. |
| Mohawk Summit | Yuma | 538 | 9 | 69.0 | + 1.8 | 96 | 6 | 43 | 25 | 41 | T. | ..... | T. | 0.0 | 0 | 23 | 7 | 1 | e. | Southern Pacific Co. |
| Naco | Cochise | 4,579 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.00 | ..... | 0.00 | 0.0 | 0 | 27 | 3 | 1 | sw. | El Paso & Southwest. R.R. |
| Natural Bridge | Gila | 4,990 | 21 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.25 | − 1.93 | 0.25 | 1.0 | 1 | 17 | 11 | 3 | sw. | D. G. Goodfellow. |
| Nogales | Santa Cruz | 3,830 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Wallace & Summerhayes. |
| Oracle | Pinal | 4,500 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | W. H. Winters. |
| Osborn | Cochise | 4,676 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.04 | ..... | 0.04 | 0.0 | 1 | 18 | 12 | 1 | sw. | El Paso & Southwest. R.R. |
| Paradise | Cochise | 3,940 | 4 | 52.6 | ..... | 83 | 5 | 21 | 30 | 49 | T. | ..... | T. | 0.0 | 0 | 8 | 20 | 3 | sw. | J. C. Hancock. |
| Parker | Yuma | 345 | 13 | 67.7 | + 5.0 | 100 | 2† | 38 | 28 | 55 | T. | − 0.29 | T. | 0.0 | 0 | 24 | 5 | 2 | s. | Dr. H. V. King. |
| Payson | Gila | 5,500 | 1 | 51.8 | ..... | 84 | 5 | 24 | 24 | 54 | 2.09 | ..... | 1.30 | 3.0 | 3 | 12 | 9 | 10 | s. | M. McDonald. |
| Phoenix (1) | Maricopa | 1,108 | 15 | 65.7 | + 5.2 | 92 | 21 | 41 | 27 | 42 | 0.61 | + 0.12 | 0.59 | 0.0 | 2 | 20 | 9 | 2 | e. | U. S. Weather Bureau. |
| Pinal Ranch | Pinal | 4,520 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.58 | − 0.82 | 1.41 | 0.0 | 2 | 22 | 7 | 2 | ..... | Irion & Craig. |
| Pinto | Apache | 5,660 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.82 | ..... | 0.40 | 8.0 | 3 | 23 | 4 | 4 | sw. | Mrs. C. F. Henning. |
| Prescott | Yavapai | 5,320 | 45 | 48.5 | + 4.6 | 79 | 4 | 21 | 30 | 48 | 1.18 | − 0.52 | 1.03 | 3.5 | 2 | 25 | 4 | 2 | ..... | Dr. J. W. Flinn. |
| Quartzsite | Yuma | 800 | 2 | 65.6 | ..... | 95 | 6 | 38 | 1 | 48 | 0.00 | ..... | 0.00 | 0.0 | 0 | 25 | 5 | 1 | sw. | W. E. Scott. |
| Redrock | Pinal | 1,856 | 2 | 67.0 | ..... | 94 | 5† | 40 | 27† | 46 | 0.20 | ..... | 0.11 | 0.0 | 2 | 12 | 17 | 2 | w. | W. J. Crowell. |
| Roosevelt | Gila | 2,175 | 6 | 64.8 | ..... | 89 | 6† | 40 | 28 | 40 | 1.22 | ..... | 1.08 | 0.0 | 3 | 21 | 8 | 2 | ..... | W. A. Schoenfeld. |
| Sacaton | Pinal | ..... | 2 | 67.3 | ..... | 96 | 21 | 37 | 27 | 49 | 0.38 | ..... | 0.22 | 0.0 | 2 | 23 | 7 | 1 | ..... | M. F. Gilman. |
| Saint Johns | Apache | 5,650 | 5 | 49.4 | ..... | 82 | 7 | 20 | 30 | 53 | 0.47 | ..... | 0.22 | 5.0 | 3 | 20 | 8 | 3 | sw. | A. Shreeve. |
| Saint Michaels | ...do | 6,950 | 22 | 43.5 | + 4.9 | 70 | 20† | 21 | 27† | 41 | 0.50 | − 0.39 | 0.17 | 4.3 | 4 | 16 | 10 | 5 | sw. | Rev. A. Weber, O. F. M. |
| Salome | Yuma | 1,875 | 3 | 50.8 | ..... | 89 | 4† | 28 | 29 | 50 | 0.04 | ..... | 0.04 | 0.0 | 1 | 19 | 4 | 8 | w. | Mrs. M. B. Swarts. |
| San Carlos | Gila | 2,456 | 28 | 60.3 | + 4.9 | 91 | 4† | 31 | 2 | 58 | 0.43 | − 0.70 | 0.36 | 0.0 | 2 | 21 | 6 | 4 | w. | F. S. Thomas. |
| San Simon | Cochise | 3,609 | 26 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Southern Pacific Co. |
| Seligman | Yavapai | 5,219 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C. W. Dougherty. |
| Sentinel | Maricopa | 685 | 11 | 67.5 | + 2.6 | 93 | 21† | 40 | 26† | 40 | 0.00 | − 0.15 | 0.00 | 0.0 | 0 | 28 | 3 | 0 | ..... | Southern Pacific Co. |
| Showlow | Navajo | 6,300 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | G. Woolford. |
| Silverbell | Pima | 2,650 | 4 | 68.2 | ..... | 89 | 7† | 39 | 26 | 29 | 0.34 | ..... | 0.19 | 0.0 | 2 | 24 | 4 | 3 | w. | Imperial Copper Co. |
| Supai | Coconino | 3,200 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C. E. Coe. |
| Tempe | Maricopa | 1,165 | 6 | 64.8 | ..... | 93 | 21 | 40 | 27 | 47 | 0.57 | ..... | 0.50 | 0.0 | 3 | 25 | 5 | 1 | sw. | F. H. Simmons. |

TABLE 1.—*Climatological data for March, 1910. District No. 9*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Sky. | | | | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | Number of rainy days, .01 inch or more. | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | Prevailing wind direction. | |
| *Arizona*—Cont'd. | | | | | | | | | | | | | | | | | | | |
| Thatcher | Graham | 2,800 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Prof. J. H. Larson. |
| Tombstone | Cochise | 4,550 | 11 | 59.8 | + 5.9 | 87 | 5† | 32 | 28 | 43 | 0.13 | − 0.73 | 0.13 | T. | 1 | 21 | 10 | 0 | ..... | F. N. Walcott. |
| Truxton | Mohave | 4,197 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | E. B. Atkinson. |
| Tuba | Coconino | 4,500 | 12 | 51.0 | + 4.4 | 78 | 21 | 28 | 30 | 42 | 0.44 | + 0.01 | 0.36 | T. | 3 | 18 | 9 | 4 | ne. | G. H. Kraus. |
| Tucson | Pima | 2,390 | 30 | 63.1 | + 4.4 | 96 | 5 | 33 | 27 | 52 | 0.10 | − 0.57 | 0.08 | 0.0 | 2 | 8 | 20 | 3 | nw. | University of Arizona. |
| Vail | do | 3,421 | 11 | 63.8 | + 2.0 | 89 | 21 | 38 | 27 | 39 | 0.07 | − 0.39 | 0.06 | 0.0 | 2 | 22 | 7 | 2 | sw. | Southern Pacific Co. |
| Walnut Grove | Yavapai | 3,649 | 18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.78 | − 0.52 | 0.73 | 0.0 | 2 | 24 | 5 | 2 | ..... | J. O. Carter. |
| Wickenburg | Maricopa | 2,072 | ..... | 60.8 | + 4.9 | 90 | 5† | 32 | 27 | 40 | 0.36 | − 0.35 | 0.30 | 0.0 | 3 | 23 | 4 | 4 | ..... | Santa Fe, Presc't & Phoenix |
| Willcox | Cochise | 4,164 | 28 | 54.0 | + 1.2 | 89 | 6 | 22 | 3 | 62 | T. | − 0.80 | T. | 0.0 | 0 | 11 | 2 | 18 | s. | Southern Pacific Co. |
| Williams | Coconino | 6,750 | 8 | 42.6 | ..... | 70 | 4 | 16 | 27 | 43 | 0.92 | ..... | 0.40 | 0.0 | 4 | 18 | 12 | 1 | sw. | E. J. Nordyke. |
| Winslow | Navajo | 4,853 | 5 | 52.0 | ..... | 87 | 5 | 24 | 31 | 53 | 0.40 | ..... | 0.40 | 1.0 | 1 | 23 | 0 | 8 | ..... | J. F. Bauer. |
| Yarnell | Yavapai | 4,700 | 12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.44 | − 1.54 | 0.18 | 1.0 | 3 | 19 | 9 | 3 | sw. | E. L. Bartholomew. |
| Yuma | Yuma | 141 | 29 | 67.5 | + 3.0 | 98 | 4 | 41 | 28 | 46 | 0.02 | − 0.33 | 0.02 | 0.0 | 1 | 26 | 3 | 2 | w. | U. S. Weather Bureau. |
| *Nevada.* | | | | | | | | | | | | | | | | | | | | |
| Las Vegas | Clark | ..... | ..... | 56.5 | ..... | 96 | 7 | 28 | 24† | 60 | 0.30 | ..... | 0.30 | 0.0 | 1 | 15 | 12 | 4 | nw. | Salt Lake Route. |
| Logan | do | ..... | ..... | 60.4 | ..... | 88 | 21 | 32 | 29 | 47 | 0.23 | ..... | 0.22 | 0.0 | 2 | 10 | 17 | 4 | s. | Ray M. Filcher. |

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
∞ Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
‖ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
| Estimated by observer.
|| Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1910. District No. 9, Colorado Valley.*

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Wyoming.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Daniel | Green | .80 | | | | | | | | .40 | | | | | | | | | | | | | T. | | T. | | .40 | | .30 | | | | 1.90 |
| Dixon | Snake | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | .40 | | T. | | | | 0.49 |
| Eden | Green | | | | | | | | | .09 | | | | | | | | | | | | | | T. | | | .02 | | .01 | .01 | | | 0.04 |
| Green River | ...do | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | |
| Kendall | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | .10 | | | | | | 0.26 |
| Pinedale | ...do | .06 | | | | | | | | .10 | | | | | | | | | | | T. | | | | | | .90 | | T. | .60 | | | 1.60 |
| Rambler | Snake | T. | | | | | | | | .10 | | | | | | | | | | | | | | | | | | | | | | | |
| Willow Creek Cabin | Green | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Colorado.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ashcroft | Grand | .13 | | | | | | | | T. | | | | | | T. | | | | | | | | | | | .16 | | .07 | .14 | .07 | | 0.59 |
| Breckenridge | ...do | | | | | | | | T. | | | | | | T. | | | | | | | | | | | | .09 | | T. | .24 | | | 0.33 |
| Cascade | San Juan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chromo | ...do | | | | | | | | | | T. | | | | | T. | | | | | | | | | | | .10 | | .15 | | | | 0.25 |
| Cochetopa | Gunnison | | | | | | | | | | | | | | | | | | | | | | | | | | .09 | | | .02 | | | 0.14 |
| Collbran | Grand | | | | | | | | | .03 | | | | | | | | | | | | | | | | | .37 | | | .14 | | | 1.13 |
| Columbine | Yampa | .23 | | | | | | | | .39 | | | | | | | | | | | | | | | | | .32 | .09 | | T. | | | 0.41 |
| Columbine Ranch | Gunnison | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | .26 | | .84 | .88 | | 3.14 |
| Corona[‖] | Grand | .72 | | | | | | | | .16 | .26 | | | | | | | | | | | | | | | | .12 | | | | | | 0.12 |
| Crawford | Gunnison | | | | | | | | | | | | | | | | | | | | | | | | | | .37 | | .25 | | | | 0.62 |
| Crested Butte | ...do | | | | | | | | | T. | | | | | | | | | | | | | | | | | .01 | | | | | | 0.31 |
| De Beque | Grand | | | | | | | | | .30 | | | | | | | | | | | | | | | | | T. | | | | | | T. |
| Delta | Gunnison | | | | | | | | | | | | | | | T. | | | | | | | | | | | .17 | | T. | .33 | | | 0.50 |
| Dillon | Grand | T. | | | | | | | | | | | | | | .20 | | | | | | | | | | | .34 | | | .21 | | | 0.75 |
| Dolores | Dolores | | | | | | | | | | | | | | | .34 | | T. | | | T. | | | | | .08 | .14 | | .06 | .02 | | | 0.64 |
| Durango | San Juan | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | T. | | | | T. |
| Eagle | Grand | T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eureka | San Juan | | | | | | | | | | T. | | | | | | | | | | | | | | | | | .10 | | .20 | .10 | | | 0.40 |
| Fraser[‖] | Grand | T. | | | | | | | | | | | | | | | | | | | T. | | | | | | .28 | | T. | | | | 0.28 |
| Fruita | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gladstone | San Juan | | | | | | | | | | | | | | | | | | | | | | | | | | .40 | .04 | | | | | 0.44 |
| Glenwood Springs | Grand | | T. | | | | | | | | | | | | | | | | | | T. | | | | | | .11 | | T. | | | | 0.11 |
| Grand Junction | ...do | | | | | | | | | | | | | | | | | | | | T. | .25 | | | | | | | .50 | | | | 0.75 |
| Grandlake | ...do | | | | | | | | | | | | | | | | | | | | T. | | | | | | .30 | .03 | | .02 | | | 0.36 |
| Grand Valley | ...do | | | | | | | | .01 | | | | | | | | T. | | | | | | | | | | .05 | | T. | | | | 0.05 |
| Gunnison | Gunnison | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Horsefly | ...do | | | | | | | | | | | | | | | .17 | T. | | | | | | | | | | .45 | | T. | 1.00 | | | 1.62 |
| Ironton | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | .10 | | T. | | | 0.30 |
| Kremmling | Grand | | | | | | | | | | | | | | | .33 | .05 | | | | | | | | | | .35 | | .01 | .26 | | | 1.05 |
| Lake City | Gunnison | .05 | | | | | | | | .15 | | | | | | | | | | | | | | | | | .22 | | | .01 | | | 0.38 |
| Lay | Yampa | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | * | .60 | | | 0.80 |
| Leal | Grand | | | | | | | | | | | | | | | | | | | | | | | | | | | | * | .18 | | | 0.18 |
| Lujane | Gunnison | | | | | | | | | | | | | | | .19 | | | | | | | | | | | .51 | | .12 | .64 | | | 1.46 |
| Mancos | San Juan | | | | | | | | | | | | | | | | | | | | | | | | | | .28 | .07 | * | .10 | | | 0.47 |
| Marble | Grand | | | | | | | | | .02 | | | | | | | T. | | | | | | | | | | T. | | .14 | .44 | | | 0.58 |
| Marshall Pass | Gunnison | | | | | | | | | T. | | | | | | | | | | | | | | | | | .10 | | | .05 | | | 0.24 |
| Meeker | White | | | | | | | | | .09 | | | | | | | | | | | | | | | | | | | | | | | 0.09 |
| Montrose | Gunnison | | | | | | | | | | | | | | | | | | | | | | | | | | .17 | T. | T. | .42 | T. | | 0.59 |
| Nast | Grand | | | | | | | | | T. | | | | | | | | | | | | | | | | | | .80 | | .50 | | | | 1.30 |
| Pagoda | Yampa | | | | | | | | | T. | | | | | | .08 | | | | | | | | | | | .25 | | T. | .43 | | | 0.76 |
| Pagosa Springs | San Juan | | | | | | | | | T. | | | | | | | | | | | T. | | | | | | .23 | | T. | | | | 0.23 |
| Paonia | Gunnison | | | | | | | | | | | | | | | | | | | | | | | | | | .05 | | .06 | | | | 0.11 |
| Parshall | Grand | | | | | | | | | | | | | | | .11 | | | | | | | | | | | .21 | | T. | .10 | | | 0.42 |
| Pitkin | Gunnison | | | | | | | | | T. | | | | | | | | | | | T. | | | | | | .39 | | | T. | | | 0.39 |
| Rangely | White | | | | | | | | | | | | | | | | | | | | | | | | | .10 | T. | | T. | .80 | | | 2.10 |
| Redcliff | Grand | | | .30 | .10 | .80 | | | | | | | | | | .31 | | | | | | | | | | T. | .29 | | .09 | .31 | | | 1.00 |
| Rico | Dolores | | | | | | | | | | | | | | | | | | | | | | | | | | | | .18 | | | | 0.18 |
| River Portal | Gunnison | | | | | | | | | | | | | | | T. | .02 | | | | | | | | | | .28 | T. | .01 | .58 | | | 1.04 |
| Sapinero | ...do | .15 | | | | | | | | T. | | | | | | | T. | | | | | | | .02 | | | .43 | | | T. | | | 0.45 |
| Shoshone | Grand | .10 | | | | | | | | | | | | | | 30 | | | | | | | | .02 | | | .90 | | | .12 | .86 | | 2.30 |
| Silverton (1) | San Juan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silverton (near) | ...do | | | | | | | | | .22 | .03 | | | | | | | | | | | | | | | | .24 | .09 | .08 | .30 | .08 | | 1.33 |
| Spruce Lodge | Grand | | | | | | | | | .10 | | | | | | | | | | | | | | | | | * | .24 | .15 | | | | 0.49 |
| Steamboat Springs | Yampa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tacoma | San Juan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal Dam | ...do | | | | | | | | | T. | | | | | | .07 | | | | | T. | | | | | | .46 | | .19 | | | | 0.72 |
| Uncompahgre Plateau | Gunnison | | | | | | | | | | | | | | | | | | | | | | | | | | .14 | | | .50 | | | 0.64 |
| Whitepine | ...do | | | | | | | | | .03 | | | | | | | | | | | | | | | | | .18 | | T. | .05 | | | 0.26 |
| | Yampa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Utah.* | | | | | | | | | | | | | | | | | | | | | | | | | | 1.95 | | | T. | | | 2.00 |
| Baker | Colorado | | | | | | | | | T. | | | | | | .05 | | | | | | | | | | | .10 | 1.32 | | | .70 | | | 2.60 |
| Basin | Grand | | | | | | | | | .16 | | | | | | .22 | .10 | | | | | | | .10 | | | .30 | | .10 | | | | 0.50 |
| Castle Dale | Green | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T. |
| Emery | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | .32 | | | | | | 0.32 |
| Escalante | ...do | | | | | | | | | T. | | | | | | | | | | | T. | | | | | | .10 | T. | .02 | T. | | | 0.12 |
| Fort Duchesne | Green | | | | | | | | | T. | | | | | | .80 | | | | | | | | | | | 1.00 | | | | | | 1.80 |
| Grayson | San Juan | | | | | | | | | | | | | | | | | | | | | | | | | | .75 | | | | | | 0.75 |
| Green River | Green | | | | | | | | | | | | | | .08 | | | | | | | | | | | | .15 | | | | | | 0.23 |
| Hanksville | Colorado | | | | | | | | | | | | | | | .06 | | | | | | | | | | | T. | .76 | T. | .05 | | | 0.87 |
| Hite | ...do | | | | | | | | | T. | | | | | | T. | T. | | | | T. | | | | | | * | .49 | | T. | .10 | | | 0.59 |
| La Sal | Grand | | | | | | | | | | | | | | | .10 | | | | | | | | | | | .10 | | | | | | 0.20 |
| Loa | Colorado | | | | | | | | | | | | | | .25 | | | | | | | | .25 | | | | 1.60 | .50 | .30 | | | | 2.90 |
| Mill Canyon | ...do | | | | | | | | | | | | | | | .14 | | | | | | | | | | | T. | 1.08 | | T. | | | 1.31 |
| Moab | Grand | | | | | | | | | .09 | | | | | | | | | | | | | | | | | | | | | | | |
| Monticello | ...do | | | | | | | | | | | | | | .13 | .11 | | | | | | | .09 | | | | .09 | .56 | .01 | .01 | | | 1.00 |
| Ordervillo | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Price | Green | | | | | | | | | | | | | | | T. | | | | | | | | | | | .42 | | | | | | 0.42 |
| Ranch | Colorado | | | | | | | | | | | | | | .16 | | | | | | | | | | | | .72 | | .20 | | | | 1.08 |
| St. George | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scofield | Green | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Springdale | Colorado | | | | | | | | | | | | | | | | | | T. | | | | | .35 | | | .40 | .10 | .20 | .10 | | | 1.30 |
| Strawberry | Green | | | | | | | | | .15 | | | | | | | | | | | | | | | | | * | .30 | | .05 | | | 0.25 |
| Sunnyside | ...do | | | | | | | | | | | | | | | | | | | | | | T. | | | | | .19 | | .02 | | | 0.29 |
| Theodore | ...do | | | | | | .08 | | | | | | | | | | | | | | | | | | | | .76 | .20 | T. | | | | 1.13 |
| Tropic | Colorado | | | | | | | | | | | | | | | .17 | | | T. | | | | | | | | | .07 | | | | | 0.07 |
| Vernal | Green | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *New Mexico.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alma | Gila | | | | | | | | | | .10 | | | | | | | | | | | | | | | | | T. | | T. | | | | 0.10 |
| Aragon | ...do | | | | | | | | | | .75 | | | | | | | | | | | | | | | | .02 | | | .12 | .15 | | | 0.75 |
| Blackrock | Little Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.29 |
| Bloomfield | San Juan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cambray | Mimbres | | | | | | | | | | .08 | | | | | | | | | | | | | | | | | | | | | | 0.08 |
| Columbus | Gila | | | | | | | | | | 1.10 | | | | | | | | | | .03 | | | | | | | | | | | | 1.13 |
| Deming | Mimbres | | | | | | | | | | .19 | | | | | | | | | | | | | | | | | | | | | | 0.19 |
| Dulce | San Juan | | | | | | | | | | | | | | | .35 | | | | | T. | | | | | | .10 | | .08 | .29 | | | 0.82 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 9*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *New Mexico*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fort Bayard | Mimbres | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | | | | T. |
| Fort Wingate | Little Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fruitland | San Juan | | | | | | | | | | | | | | | .05 | | | | | | | | | | T. | | | | | | | 0.05 |
| Gage | Mimbres | | | | | | | | | | .20 | | | | | | | | | | | | | | | | | | | | | | 0.20 |
| Gila (near) | Gila | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Hachita | ...do | | | | | | | | | | .31 | | | | | | | | | .05 | | | | | | | | | | | | | 0.36 |
| Haynes | San Juan | | | | | | | | | | .23 | | | | | .34 | | | | | T. | | | | | | .01 | | .06 | .05 | | | 0.69 |
| Hermanes | Gila | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | T. |
| Lordsburg | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Luna (near) | ...do | | | | | | | | | T. | T. | | | | | T. | | | | | | | | | | | T. | | T. | T. | T. | | T. |
| Manuelito | Little Colorado | | | | | | | | | | T. | | | | | | | | | | T. | | | | | | T. | | T. | | | | T. |
| Mimbres | Mimbres | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Pratt | Gila | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Putnam | San Juan | | | | | | | | | | .03 | | | | | .02 | .14 | | | | | | | | | | | | | | | | 0.19 |
| Redrock | Gila | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Rodeo | ...do | | | | | | | | | | .03 | | | | | | | | | .16 | | | | | | | | | | | | | 0.19 |
| Rosa | San Juan | | | | | | | | | | | | | | | | | | | | | | | | | | .02 | .01 | | | | | 0.03 |
| *Arizona.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Allaires Ranch | Sonora | | | | | | | | | | | | | | | | | | .12 | | | | | | | | | | T. | | | | 0.12 |
| Arizona Canal Dam | Salt | | | | | | | | | | | | | | | | | | | | | | | | | .13 | .80 | | .07 | | | | 1.00 |
| Aztec | Gila | | | | | | | | | | | | | | | | | | | | | | | | | .10 | | | | | | | 0.10 |
| Benson | San Pedro | | | | | | | | | | | | | | | | | | .05 | | | | | | | | | | .08 | | | | 0.13 |
| Bisbee | ...do | | | | | | | | | | | | | | | | | | .03 | .04 | | | | | | | | | | | | | 0.07 |
| Bonita | Mimbres | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Bowie | Gila | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Buckeye | ...do | | | | | | | | | | | | | | | | | | | | | | | | | .18 | | | | | | | 0.18 |
| Canille | San Pedro | | | | | | | | | | | | | T. | | | | T. | T. | .30 | | | | | T. | | | | .20 | | | | 0.50 |
| Casa Grande | Gila | | | | | | | | | | | | | | | | | | | | | | | | .75 | | | | | | | | 0.75 |
| Cave Creek | Verde | | | | | | | | | | | | | | | | | | | | | | | | .22 | .78 | | | | | | | 1.00 |
| Chin Lee | San Juan | | | | | | | | | | | | | | T. | .12 | | | T. | T. | | | | | | T. | | | T. | | | | 0.12 |
| Chiarsons Mill | Gila | | | | | | | | | | .92 | .80 | | | | | | | | | | | | | | | .48 | | .31 | | | | 2.54 |
| Clifton | ...do | | | | | | | | | | .04 | | | | | | | | | | | | | | | T. | | | T. | | T. | | 0.04 |
| Cline | Salt | | | | | | | | | | | | | | | | | | | | | | | | | | 1.22 | .03 | | .04 | | | 1.29 |
| Cochise | Desert | | | | | | | | | | | | | | | | | | .10 | | | | | | | | | | T. | | | | 0.10 |
| Columbia | Agua Fria | | | | | | | | | | | | | | | | | | | | | | | | | .07 | .55 | | | | | | 0.62 |
| Congress | Hassayampa | | | | | | | | | | | | | T. | | | | T. | | | | | | | | .35 | | .03 | | | | | 0.40 |
| Courtland | White | | | | | | | | .25 | | | T. | | | | | | | | | T. | | | | | | | | | | | | 0.25 |
| Dos Cabezos | Desert | | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | | | | 0.15 |
| Douglas | Sonora | | | | | | | | | | | | | | | | | | | .10 | | | | | | | | | | | | | 0.10 |
| Dudleyville | Gila | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fairbank | San Pedro | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | T. |
| Flagstaff (1) | Little Colorado | | | | | | | | | | | | | | .04 | T. | | T. | T. | T. | | | | | | 1.83 | .30 | | .48 | | | | 2.65 |
| Florence | Gila | | | | | | | | | | | | | | | | | | | | | | | | | .45 | | | | | | | 0.45 |
| Fort Apache | Salt | | | | | | | | | | T. | | | | | | | | | | | | | | | .20 | .40 | | .02 | | | | 0.62 |
| Fort Huachuca | San Pedro | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | T. | | | T. |
| Fort Mohave | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | .06 | T. | | | | 0.06 |
| Gilabend | Gila | | | | | | | | | | | | | | | | | | | | | | | | | | | .18 | .02 | | | | 0.20 |
| Globe | Salt | | | | | | | | | | | | | | | | | | | | | | | | | | .67 | | .07 | | | | 0.74 |
| Grand Canyon | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Greer | Little Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | .30 | .05 | | 0.55 |
| Hereford | San Pedro | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Holbrook | Little Colorado | | | | | | | | | | | | | | T. | | | | | | | | | | | | .23 | | .31 | | | | 0.54 |
| Intake | Salt | | | | | | | | | | | | | | | | | | | | | | | | | | .70 | | .30 | | | | 1.00 |
| Jerome | Verde | | | | | | | | | | | | | | .06 | | | | | | | | | | | .85 | 1.30 | .27 | | | | | 2.48 |
| Keams Canyon | Little Colorado | | | | | | | | | | | | | | | | | | | | | | | | | .32 | | | .03 | T. | | | 0.35 |
| Kingman | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lewis Springs | San Pedro | | | | | | | | | | | | | | | | | | | .01 | | | | | | | | | | | | | 0.01 |
| Maricopa | Gila | | | | | | | | | | | | | | | | | | | | | | | | | .32 | | | .06 | | | | 0.38 |
| Mesa | Salt | | | | | | | | | | | | | | | | | | | | | | | | | .72 | | .07 | | | | | 0.79 |
| Mohawk Summit | Gila | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | T. |
| Naco | San Pedro | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Natural Bridge | Verde | | | | | | | | | | | | | | | | | | | | | | | | | | | | .25 | | | | 0.25 |
| Nogales | Santa Cruz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oracle | San Pedro | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osborn | ...do | | | | | | | | | | | | | | | | | T. | T. | .04 | | | | | | | | | | | | | 0.04 |
| Paradise | Desert | | | | | | | | | | | T. | | | | | | | | T. | | | | | | | | | T. | | | | T. |
| Parker | Colorado | | | | | | | | | | | | | | | | | | | | | | T. | | | | | T. | | | | | T. |
| Payson | Verde | | | | | | | | | | | | | | | | | | | | | | | | | .51 | 1.30 | | .28 | T. | | | 2.09 |
| Phoenix (1) | Salt | | | | | | | | | | | | | | | | | | | | | | | | | .59 | T. | | .02 | | | | 0.61 |
| Pinal Ranch | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | 1.41 | | | .17 | | | 1.58 |
| Pinto | Little Colorado | | | | | | | | T. | | | | | | | | | | | | | | | | | | | .02 | .40 | .40 | | | 0.82 |
| Prescott | Hassayampa | | | | | | T. | | | | | | | | | | | | | T. | | | | | 1.03 | | | | .15 | | | | 1.18 |
| Quartzsite | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Redrock | Santa Cruz | | | | | | | | | | | | | | | | | | T. | | | | | | | .11 | T. | | .09 | T. | | | 0.20 |
| Roosevelt | Salt | | | | | | | | | | | | | | | | | | T. | | | | | | | .05 | 1.08 | | .09 | | | | 1.22 |
| Sacaton | Gila | | | | | | | | | | | | | | | | | | | | | | | | | .22 | .16 | | | | | | 0.38 |
| St. Johns | Little Colorado | | | | | | | | | | | | | | | | | | | | | | | | | .10 | .22 | | .15 | | | | 0.47 |
| St. Michaels | ...do | | | | | | | | | | .17 | | | | T. | .11 | | | T. | T. | T. | | | | | | .10 | | .12 | T. | | | 0.50 |
| Salome | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | .04 | T. | | | | | 0.04 |
| San Carlos | Gila | | | | | | | | | | | | | | | | | | | | | | | | | T. | .36 | | .07 | | | | 0.43 |
| San Simon | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seligman | Verde | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sentinel | Gila | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Showlow | Little Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silverbell | Santa Cruz | | | | | | | | | | | | | | | | | | | | | | | | | | .15 | .19 | | | | | 0.34 |
| Supai | Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tempe | Salt | | | | | | | | | | | | | | | | | | | | | | | | | .02 | .50 | .05 | | | | | 0.57 |
| Thatcher | Gila | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tombstone | San Pedro | | | | | | | | | | | | | | | | | | .13 | | | | | | | | | | T. | | | | 0.13 |
| Truxton | Little Colorado | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tuba | ...do | | | | | | | | | | | | | | .05 | | | | | | | | | | | .36 | | | .03 | | | | 0.44 |
| Tucson | Santa Cruz | | | | | | | | | | | | | | | | | | | | | | | | | .02 | T. | | .08 | T. | | | 0.10 |
| Vail | ...do | | | | | | | | | | | | | | | | | | | | | | | | | .06 | | | .01 | | | | 0.07 |
| Walnut Grove | Hassayampa | | | | | | | | | | | | | | | | | | | | | | | | | .73 | | .05 | | | | | 0.78 |
| Wickenburg | ...do | | | | | | | | | | | | | | | | | | | | | | | | | .30 | .04 | | .02 | | | | 0.36 |
| Willcox | Desert | | | | | | | | | | | | | | | | | | T. | T. | | | | | | | | | | | | | T. |
| Williams | Colorado | | | | | | | | | | | | | | .02 | | | | | | | | | | | .40 | .30 | | .20 | | | | 6.92 |
| Winslow | Little Colorado | | | | | | | | | | | | | | T. | | | T. | | | | | | | .40 | | T. | | | | | | 0.40 |
| Yarnell | Hassayampa | | | | | | | | | | | | | | | | | | | | | | | | | .18 | .16 | .10 | T. | | | | 0.44 |
| Yuma | Colorado | | | | | | | | | | | | | | | | | .02 | | | | | | | | | | | | | | | 0.02 |
| *Nevada.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Las Vegas | Colorado | | | | | | | | | | | | | | T. | | | | | | | | | | T. | | T. | .30 | | | | | 0.30 |
| Logan | ...do | | | | | | | | | | | | | | | | | | | | | | | T. | | | .01 | | T. | .22 | | | 0.23 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 9, Colorado Valley.*

| Date. | Wyoming. | | | | Colorado. | | | | | | | | | | Utah. | | | | | | | | | | New Mexico. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Daniel. | | Green River. | | Durango. | | Grand Junction. | | Gunnison. | | Meeker. | | Steamboat Springs. | | Emery. | | Fort Duchesne. | | Hite. | | Moab. | | St. George (Experiment station.). | | Fort Bayard. | | Fort Wingate. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 47 | 22 | 48 | 29 | 58 | 28 | 57 | 28 | 35 | 3 | 51 | 32 | 52 | 27 | 55 | 28 | 56 | 25 | 71 | 35 | 66 | 30 | 80 | 30 | 72 | 35 | ..... | ..... |
| 2 | 53 | 29 | 54 | 32 | 62 | 28 | 63 | 30 | 40 | − 3 | 54 | 24 | 53 | 32 | 57 | 30 | 51 | 23 | 74 | 35 | 68 | 29 | 81 | 32 | 73 | 40 | ..... | ..... |
| 3 | 43 | 11 | 57 | 27 | 63 | 28 | 66 | 36 | 30 | − 3 | 51 | 25 | 51 | 11 | 58 | 32 | 50 | 21 | 76 | 36 | 71 | 29 | 82 | 33 | 76 | 45 | ..... | ..... |
| 4 | 45 | 8 | 63 | 28 | 64 | 28 | 69 | 38 | 28 | − 7 | 58 | 25 | 50 | 11 | 61 | 31 | 54 | 21 | 76 | 37 | 75 | 31 | 79 | 33 | 76 | 46 | ..... | ..... |
| 5 | 46 | 10 | 58 | 30 | 68 | 29 | 70 | 40 | 30 | − 4 | 63 | 25 | 50 | 18 | 63 | 28 | 59 | 26 | 80 | 37 | 80 | 34 | 83 | 31 | 78 | 46 | ..... | ..... |
| 6 | 40 | 1 | 59 | 23 | 68 | 30 | 71 | 38 | 30 | − 2 | 60 | 24 | 52 | 11 | 65 | 33 | 60 | 22 | 69 | 38 | 76 | 33 | 83 | 31 | 79 | 43 | ..... | ..... |
| 7 | 45 | 6 | 60 | 26 | 68 | 31 | 70 | 42 | 32 | − 2 | 61 | 25 | 52 | 11 | 62 | 35 | 62 | 27 | 78 | 38 | 75 | 33 | 82 | 34 | 78 | 40 | ..... | ..... |
| 8 | 42 | 7 | 52 | 24 | 62 | 32 | 65 | 32 | 36 | − 2 | 55 | 25 | 49 | 9 | 60 | 30 | 60 | 28 | 72 | 39 | 72 | 31 | 80 | 34 | 79 | 42 | ..... | ..... |
| 9 | 37 | 14 | 48 | 30 | 54 | 28 | 54 | 33 | 26 | − 1 | 46 | 25 | 48 | 18 | 53 | 32 | 54 | 23 | 69 | 40 | 60 | 30 | 72 | 37 | 69 | 43 | ..... | ..... |
| 10 | 42 | − 1 | 55 | 29 | 55 | 24 | 58 | 31 | 35 | 2 | 50 | 19 | 43 | 4 | 55 | 22 | 55 | 20 | 58 | 38 | 62 | 29 | 71 | 32 | 65 | 40 | ..... | ..... |
| 11 | 43 | 3 | 60 | 20 | 58 | 26 | 64 | 32 | 30 | − 2 | 55 | 23 | 47 | 7 | 58 | 24 | 60 | 21 | 71 | 32 | 68 | 25 | 75 | 27 | 62 | 35 | ..... | ..... |
| 12 | 46 | 1 | 62 | 21 | 61 | 26 | 67 | 36 | 35 | − 1 | 59 | 23 | 51 | 7 | 58 | 27 | 64 | 22 | 76 | 35 | 71 | 27 | 79 | 29 | 60 | 30 | ..... | ..... |
| 13 | 45 | 1 | 65 | 19 | 64 | 30 | 68 | 36 | 34 | − 2 | 60 | 24 | 50 | 8 | 62 | 25 | 64 | 23 | 77 | 38 | 72 | 29 | 78 | 37 | 65 | 32 | ..... | ..... |
| 14 | 45 | 6 | 65 | 20 | 61 | 30 | 69 | 38 | 36 | 5 | 61 | 24 | 54 | 8 | 63 | 30 | 63 | 24 | 74 | 39 | 73 | 30 | 74 | 40 | 67 | 33 | ..... | ..... |
| 15 | 44 | 8 | 64 | 21 | 48 | 34 | 62 | 40 | 40 | 26 | 62 | 27 | 56 | 10 | 58 | 36 | 68 | 29 | 69 | 44 | 66 | 40 | 71 | 38 | 68 | 35 | ..... | ..... |
| 16 | 46 | 10 | 63 | 22 | 57 | 31 | 68 | 33 | 41 | 26 | 60 | 24 | 52 | 13 | 65 | 30 | 67 | 30 | 73 | 39 | 71 | 35 | 77 | 34 | 69 | 37 | ..... | ..... |
| 17 | 47 | 8 | 64 | 23 | 62 | 30 | 70 | 38 | 44 | 28 | 62 | 26 | 54 | 19 | 67 | 33 | 67 | 28 | 78 | 40 | 74 | 35 | 80 | 36 | 70 | 43 | ..... | ..... |
| 18 | 49 | 10 | 70 | 25 | 65 | 31 | 72 | 41 | 42 | 16 | 64 | 54 | 54 | 19 | 66 | 35 | 72 | 29 | 82 | 42 | 77 | 35 | 80 | 42 | 71 | 45 | ..... | ..... |
| 19 | 48 | 17 | 72 | 26 | 70 | 33 | 76 | 42 | 46 | 13 | 69 | 30 | 57 | 18 | 68 | 34 | 73 | 29 | 82 | 44 | 80 | 37 | 82 | 42 | 72 | 45 | ..... | ..... |
| 20 | 55 | 22 | 75 | 29 | 69 | 35 | 76 | 46 | 54 | 17 | 72 | 30 | 58 | 18 | 70 | 39 | 76 | 32 | 82 | 44 | 82 | 36 | 81 | 47 | 72 | 44 | ..... | ..... |
| 21 | 57 | 25 | 72 | 32 | 67 | 35 | 77 | 50 | 60 | 19 | 71 | 30 | 58 | 20 | 68 | 29 | 75 | 40 | 83 | 45 | 84 | 41 | 85 | 41 | 70 | 40 | ..... | ..... |
| 22 | 53 | 18 | 68 | 48 | 68 | 32 | 76 | 50 | 57 | 22 | 69 | 29 | 64 | 23 | 67 | 25 | 74 | 31 | 82 | 50 | 80 | 37 | 76 | 48 | 71 | 45 | ..... | ..... |
| 23 | 47 | 25 | 55 | 30 | 60 | 33 | 67 | 42 | 53 | 35 | 59 | 45 | 54 | 29 | 62 | 20 | 69 | 36 | 67 | 41 | 75 | 44 | 68 | 32 | 72 | 50 | ..... | ..... |
| 24 | 45 | 22 | 58 | 22 | 62 | 27 | 65 | 34 | 55 | 29 | 61 | 18 | 59 | 17 | 68 | 35 | 64 | 24 | 72 | 37 | 72 | 33 | 72 | 31 | 71 | 55 | ..... | ..... |
| 25 | 47 | 19 | 60 | 25 | 53 | 31 | 69 | 45 | 56 | 24 | 66 | 22 | 59 | 23 | 69 | 32 | 65 | 30 | 68 | 40 | 70 | 41 | 66 | 34 | 73 | 53 | ..... | ..... |
| 26 | 37 | 17 | 53 | 34 | 45 | 31 | 54 | 38 | 46 | 19 | 56 | 35 | 58 | 31 | 65 | 31 | 55 | 35 | 58 | 34 | 70 | 36 | 58 | 43 | 72 | 50 | ..... | ..... |
| 27 | 45 | 12 | 55 | 25 | 57 | 23 | 62 | 32 | 50 | 25 | 57 | 32 | 52 | 28 | 69 | 24 | 56 | 30 | 60 | 38 | 61 | 34 | 56 | 38 | 72 | 35 | ..... | ..... |
| 28 | 38 | 27 | 50 | 33 | 43 | 29 | 54 | 37 | 55 | 25 | 50 | 33 | 54 | 24 | 52 | 26 | 53 | 34 | 55 | 40 | 60 | 38 | 51 | 36 | 66 | 25 | ..... | ..... |
| 29 | 33 | 19 | 46 | 21 | 43 | 24 | 45 | 36 | 35 | 27 | 44 | 24 | 41 | 22 | 55 | 30 | 50 | 27 | 57 | 40 | 54 | 37 | 58 | 31 | 58 | 32 | ..... | ..... |
| 30 | 41 | 18 | 57 | 16 | 54 | 27 | 57 | 25 | 45 | 15 | 49 | 15 | 45 | 7 | 52 | 21 | 57 | 16 | 65 | 36 | 60 | 29 | 68 | 36 | 55 | 27 | ..... | ..... |
| 31 | 51 | 16 | 62 | 23 | 59 | 22 | 63 | 32 | 55 | 20 | 60 | 19 | 57 | 13 | 61 | 26 | 67 | 22 | 71 | 37 | 67 | 30 | 73 | 32 | 60 | 35 | ..... | ..... |
| Mns | 45.2 | 13.3 | 59.7 | 25.9 | 59.6 | 29.2 | 65.3 | 37.1 | 41.6 | 12.0 | 58.5 | 26.1 | 52.7 | 16.6 | 61.7 | 29.1 | 61.9 | 26.7 | 71.0 | 39.0 | 70.7 | 33.5 | 74.2 | 35.5 | 69.7 | 40.2 | ..... | ..... |

| Date. | Arizona. | | | | | | | | | | | | | | | | | | | | | | Logan, Nev. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bisbee. | | Flagstaff. | | Fort Apache. | | Grand Canyon. | | Parker. | | Phoenix. | | Prescott. | | St. Michaels. | | San Carlos. | | Tucson. | | Yuma. | | | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 70 | 44 | 63 | 25 | 76 | 25 | ..... | ..... | 95 | 41 | 84 | 48 | 73 | 28 | 59 | 26 | 83 | 34 | 84 | 39 | 91 | 49 | 82 | 36 |
| 2 | 76 | 46 | 65 | 25 | 80 | 27 | ..... | ..... | 100 | 45 | 90 | 48 | 76 | 30 | 60 | 27 | 88 | 31 | 91 | 39 | 94 | 53 | 85 | 38 |
| 3 | 78 | 51 | 66 | 26 | 80 | 31 | ..... | ..... | 100 | 46 | 87 | 52 | 77 | 31 | 62 | 26 | 89 | 33 | 90 | 42 | 95 | 55 | 87 | 44 |
| 4 | 78 | 50 | 68 | 25 | 80 | 29 | ..... | ..... | 99 | 45 | 88 | 48 | 79 | 31 | 66 | 27 | 91 | 34 | 91 | 41 | 98 | 52 | 87 | 42 |
| 5 | 77 | 51 | 68 | 27 | 81 | 30 | ..... | ..... | 98 | 46 | 92 | 50 | 78 | 30 | 67 | 26 | 91 | 33 | 96 | 44 | 97 | 52 | 85 | 41 |
| 6 | 76 | 52 | 68 | 25 | 82 | 31 | ..... | ..... | 96 | 45 | 89 | 53 | 77 | 30 | 67 | 27 | 91 | 36 | 93 | 46 | 93 | 51 | 85 | 45 |
| 7 | 76 | 53 | 66 | 26 | 82 | 30 | ..... | ..... | 92 | 45 | 85 | 53 | 74 | 43 | 67 | 26 | 90 | 37 | 88 | 43 | 91 | 53 | 85 | 42 |
| 8 | 72 | 50 | 65 | 30 | 76 | 33 | ..... | ..... | 95 | 43 | 84 | 53 | 73 | 42 | 67 | 32 | 86 | 41 | 83 | 39 | 92 | 47 | 86 | 42 |
| 9 | 67 | 46 | 60 | 24 | 74 | 32 | ..... | ..... | 93 | 44 | 82 | 48 | 69 | 39 | 57 | 27 | 82 | 36 | 81 | 42 | 86 | 47 | 80 | 52 |
| 10 | 65 | 45 | 49 | 32 | 60 | 31 | ..... | ..... | 86 | 44 | 77 | 51 | 59 | 36 | 46 | 30 | 74 | 41 | 69 | 39 | 85 | 49 | 74 | 43 |
| 11 | 59 | 36 | 54 | 25 | 70 | 24 | ..... | ..... | 89 | 42 | 78 | 54 | 65 | 36 | 56 | 24 | 73 | 38 | 77 | 43 | 87 | 53 | 80 | 39 |
| 12 | 64 | 39 | 57 | 22 | 70 | 28 | ..... | ..... | 91 | 46 | 81 | 59 | 66 | 27 | 58 | 26 | 75 | 43 | 80 | 55 | 85 | 58 | 81 | 41 |
| 13 | 69 | 49 | 57 | 28 | 69 | 31 | ..... | ..... | 93 | 55 | 80 | 59 | 66 | 32 | 60 | 26 | 79 | 43 | 84 | 54 | 89 | 58 | 82 | 44 |
| 14 | 69 | 50 | 58 | 28 | 72 | 33 | ..... | ..... | 87 | 55 | 81 | 50 | 65 | 33 | 59 | 27 | 82 | 38 | 82 | 49 | 83 | 51 | 75 | 49 |
| 15 | 69 | 49 | 57 | 29 | 70 | 37 | ..... | ..... | 88 | 50 | 79 | 51 | 63 | 29 | 56 | 27 | 79 | 39 | 93 | 45 | 84 | 53 | 77 | 43 |
| 16 | 70 | 46 | 61 | 24 | 73 | 29 | ..... | ..... | 93 | 44 | 82 | 50 | 70 | 29 | 60 | 29 | 83 | 38 | 81 | 44 | 90 | 47 | 82 | 39 |
| 17 | 74 | 48 | 63 | 26 | 77 | 30 | ..... | ..... | 89 | 47 | 84 | 52 | 73 | 29 | 63 | 30 | 86 | 38 | 84 | 42 | 86 | 57 | 85 | 41 |
| 18 | 66 | 53 | 60 | 29 | 75 | 44 | ..... | ..... | 93 | 55 | 80 | 60 | 70 | 31 | 64 | 30 | 77 | 53 | 79 | 58 | 81 | 56 | 82 | 41 |
| 19 | 66 | 48 | 62 | 28 | 77 | 34 | ..... | ..... | 92 | 60 | 82 | 56 | 70 | 33 | 65 | 31 | 84 | 49 | 80 | 55 | 85 | 52 | 84 | 51 |
| 20 | 69 | 45 | 65 | 30 | 74 | 34 | ..... | ..... | 94 | 52 | 85 | 55 | 71 | 34 | 70 | 34 | 87 | 45 | 86 | 47 | 88 | 52 | 84 | 46 |
| 21 | 72 | 45 | 66 | 33 | 77 | 53 | ..... | ..... | 94 | 52 | 92 | 57 | 74 | 35 | 69 | 20 | 85 | 45 | 90 | 59 | 89 | 54 | 88 | 45 |
| 22 | 75 | 49 | 62 | 33 | 68 | 33 | ..... | ..... | 85 | 51 | 85 | 59 | 67 | 41 | 70 | 30 | 91 | 49 | 90 | 51 | 79 | 51 | 82 | 46 |
| 23 | 71 | 50 | 53 | 28 | 73 | 27 | ..... | ..... | 81 | 42 | 72 | 49 | 58 | 22 | 60 | 31 | 85 | 41 | 80 | 45 | 73 | 45 | 72 | 36 |
| 24 | 71 | 50 | 58 | 22 | 67 | 34 | ..... | ..... | 83 | 41 | 77 | 45 | 64 | 23 | 59 | 32 | 85 | 36 | 86 | 41 | 79 | 43 | 75 | 34 |
| 25 | 69 | 50 | 47 | 29 | 68 | 33 | ..... | ..... | 69 | 52 | 64 | 50 | 54 | 25 | 63 | 30 | 75 | 41 | 77 | 48 | 67 | 52 | 72 | 38 |
| 26 | 58 | 33 | 38 | 12 | 52 | 32 | ..... | ..... | 74 | 42 | 61 | 45 | 46 | 27 | 54 | 29 | 64 | 40 | 54 | 38 | 69 | 42 | 75 | 45 |
| 27 | 67 | 35 | 46 | 3 | 70 | 26 | ..... | ..... | 76 | 42 | 76 | 41 | 56 | 24 | 62 | 21 | 79 | 34 | 82 | 33 | 73 | 41 | 64 | 35 |
| 28 | 61 | 36 | 31 | 21 | 44 | 32 | ..... | ..... | 75 | 38 | 62 | 45 | 44 | 25 | 48 | 21 | 71 | 38 | 59 | 39 | 71 | 41 | 58 | 41 |
| 29 | 56 | 31 | 40 | 21 | 61 | 30 | ..... | ..... | 78 | 40 | 74 | 44 | 54 | 28 | 33 | 27 | 68 | 46 | 68 | 35 | 81 | 43 | 69 | 32 |
| 30 | 57 | 32 | 42 | 26 | 59 | 23 | ..... | ..... | 79 | 48 | 74 | 44 | 54 | 21 | 47 | 22 | 71 | 32 | 71 | 38 | 81 | 47 | 74 | 39 |
| 31 | 61 | 40 | 49 | 25 | 67 | 30 | ..... | ..... | 90 | 52 | 80 | 55 | 61 | 29 | 49 | 21 | 74 | 38 | 77 | 54 | 87 | 49 | 79 | 39 |
| Means | 68.6 | 45.2 | 56.8 | 25.4 | 71.1 | 31.5 | ..... | ..... | 88.6 | 46.8 | 80.2 | 51.1 | 66.0 | 31.0 | 59.5 | 27.5 | 81.2 | 39.4 | 81.5 | 44.7 | 84.9 | 50.1 | 79.2 | 41.6 |

## Climatological Data for March, 1910.

## DISTRICT No. 10, GREAT BASIN.

ALFRED H. THIESSEN, District Editor.

### GENERAL CLIMATOLOGICAL CONDITIONS.

The winter of 1909-10 in the Great Basin was unusually severe, but was followed by a very warm March. The temperature during the month averaged much above normal and higher than that of any previous March on record. The precipitation, however, was much below normal and also the lowest on record.

### TEMPERATURE.

The mean temperature for the district, as a whole, was 45.2°, which is 7.7° above the normal. The mean temperatures of the various stations in the district ranged from 57.4° at Jean, Nev., to 32.0° at Truckee, Cal.

Temperatures were quite uniform over the greater portion of the district, there being only a few stations whose mean temperatures varied greatly from the mean for the district, 45.2°.

Temperatures were above normal the entire month, excepting a few days from the 27th to the 30th when frosts occurred generally, but little or no damage was done. On account of the generally uniform temperatures throughout the month, the highest and lowest for the month at the various stations were reported on several dates. Most stations reported maximum temperatures of over 70°, but the highest was 88° at Jean, Nev., on the 5th and 18th. The lowest was 10° at Tecoma, Nev., on the 1st, and at Ibapah, Utah, on the 28th.

### PRECIPITATION.

March was unusually dry, and for the district as a whole it was one of the driest months on record. The amounts were below normal in all portions of the district and at a few stations no precipitation at all occurred. The greatest falls occurred in central Utah, and the least in Nevada and western Utah.

Some light showers fell on the 1st and 2d at a few places in Wyoming, Idaho, and Utah. It then remained practically fair until the 14th, after which showers fell occasionally at scattered stations until the 29th. The remaining days of the month were fair. At many stations in the district no precipitation occurred from the 1st to the 22d. The heaviest precipitation for the month was 4.96 inches at Glen Alpine Springs, Cal., where 2.05 inches fell in 24 hours, which was the greatest 24-hour amount reported.

Very little snow fell during the month and the weather being unusually warm that remaining on the ground melted rapidly at the lower levels. In the mountains less snow was reported on the average than last year, and the amounts were generally less than normal. The snow was well packed, however, and some of it in the form of ice, which is a condition favorable for late melting, thereby indicating a good water supply for the coming season.

On account of the very unusual weather during this month, the following remarks by the section directors are interesting:

*Wyoming.*—The month was the warmest March in the history of Wyoming, the mean temperature averaging from 10° to 11° per day above normal, and from 5° to 6° per day above the previous warmest March, which was in 1905. The precipitation was very light.

*Utah.*—March was delightfully warm in western Utah, particularly during the first 2 decades, when it was as warm as is usual in late April or early May, and there was also practically no precipitation during this period. However, the precipitation deficiency was partially overcome during the last decade when several showers occurred in the agricultural regions, and some snow fell in the mountains.

The mean temperature was more than 2° higher than the highest previous State average. The temperature was excessive everywhere, all departures being unusually large.

This was the driest March of record with one exception, namely, March, 1900. The least precipitation fell in the more level parts of the State along the western border. However, at scattered stations elsewhere, even in the mountains, very small amounts were measured.

On all the southerly slopes the indications of spring were the earliest ever known in the State. Blackbirds and robins came earlier, frogs were heard earlier, and all vegetation began to grow much in advance of the usual time. Grass became green early in the month, and pastures were excellent thereafter, and winter grain, which promised less well earlier, was revived splendidly and progressed far ahead of its usual condition at this time of the year.

During the warm weather in the early part of the month, the snow melted so rapidly as to cause a great rise in many streams, particularly in Sanpete County where several bridges were washed away.

*Nevada.*—The warm weather which prevailed during the latter part of February continued through March, with the exception of a moderately cold spell which lasted from the 23d to the 27th. It was the warmest and driest March on record. The unusual excess in temperature was general in all sections, the plus departures ranging from 5° to 8° with but few exceptions. The great deficiency in precipitation was general, each station having a minus departure of considerable magnitude.

### SALT AND DUST STORM AT SALT LAKE CITY, UTAH.

No rain, excepting a couple of traces, fell at Salt Lake City from March 1 to 21, during which time it was very hazy. On March 22, about 7 o'clock in the evening, light rain began, becoming moderately heavy about 10 o'clock. Those who were out at the time noticed deposits of salt on their clothes. In the morning tiny spicules of salt on window panes, and dust or very fine sand on roofs and sidewalks were observed. The fine sand or dust deposits were in very observable quantities.

These so-called dust and salt storms always occur in rainstorms following long dry periods. The dust and salt of the so-called Great American Desert is carried up into the higher levels of the atmosphere by rising currents of air. When the wind is heavy enough to cause the waves to break on Great Salt Lake, a salt spray is formed. The water of the spray evaporates leaving the salt suspended in the air. This salt in its finely divided state is carried upward like the fine dust.

Two processes are involved in precipitating these suspended dust and salt particles to the earth. First, condensation always takes place on solid particles, these forming the nuclei of all cloud particles, and they are, of course, borne down to the earth when the rain begins. In addition, the rain also washes out of the atmosphere more of the dust and salt mites by absorbing them as the raindrops strike them in their descent, leaving the atmosphere clearer than it had been previously. This last process was the more important of the two in accounting for the large deposits of dust and salt found the morning following the storm of the 22d.

### HUMBOLDT RIVER FLOODS.

During the warm weather of the last 2 days of February and the 1st of March, 1910, melting snow swelled the Humboldt River, Nev., beyond the highest stage known in 20 or 25 years. The railroad grades were disastrously washed in many places, as the Southern Pacific Line runs close to the stream a great deal of the way; many bridges were also taken out and short sections of the track washed away from below Winnemucca, Nev., to the headwater regions of the stream. The Western Pacific Railroad also suffered the loss of considerable grading and a number of bridges.

Farms were flooded and cut out badly in many districts and littered with wreckage and débris. A great many animals thought to have been corraled in safety on the high ground were taken away by the sudden floods and drowned. Several hundred miles of county highways were rendered impassable, and the loss of a large number of wagon-road bridges was reported.

While northwestern Utah lay under several inches of heavy snow at the close of February, which went away with great rapidity at this time, the floods east of the Nevada line were conspicuously less than those west, due in all probability, to the

lack of concentration, or confinement of the waters to certain limited canyons or streams. The country between Great Salt Lake and Nevada is generally level, and the damage was only slight and was quickly repaired, the railroad trains being delayed only a few hours. The old line, however, around to the north of the lake met with slightly more damage than the Lucin Cut-off.

At Cobre, Nev., where the Nevada Northern Railroad connects with the Southern Pacific Line, the latter road was reported damaged from $30,000 to $40,000. The warmth and flooding, however, were said to have been a benefit to the agricultural interests in that region, particularly the shepherds. At Loray, Nev., about 75 feet of the track was washed out and a hole was made about 30 feet deep. At Carlin, several dams went out and several head of stock were lost. Meadows were considerably littered and destroyed to some extent, and a number of bridges were taken out.

Mr. R. A. Canoll reports from Elko:

The melted snow from the surrounding hills running into the Humboldt River at this point, caused the stream to rise about 4 feet higher than normal, resulting in considerable damage to all bridges. The county bridge at this place was not taken away, but was weakened and rendered unsafe for traffic. The railroads suffered the greatest loss, due principally to the backing and rising of the water along the fills, and washing out the grade.

In the town, the damage was confined mainly to flooding cellars.

The postmaster at Palisade writes:

The high water at this point did considerable damage. The river rose rapidly and swept the court house from its foundations and carried it down stream against the steel bridge at the Southern Pacific crossing, where it was dashed in pieces. Mr. J. D. Murphy lost his saloon buiding and all his stock and fixtures in the stream.

The Black Hill saloon building and several outhouses and tents were also carried away by the flood. The store building of Mrs. Nannie Raine was turned around and her stock of dry goods, notions, and clothing was practically ruined. The store of Mr. J. P. Raine was flooded to a depth of 6 feet, ruining his stock of groceries and dry goods. His warehouse was also flooded and floated off some 50 feet, but was caught and saved from destruction by some trees.

The county bridge was floated off its piling, but was caught a short way down stream by some wire cables across the stream. Considerable damage was done to the steel bridges of the Southern Pacific Company. In the Palisade Canyon several of them were washed out around the abutments weakening them, or causing them to drop an end into the stream. Washouts occurred in many instances on fills, which diverted the old channel, the high water finding its old and natural course. This caused several days' delay to the trains.

The Eureka and Palisade Railroad in Pine Valley also suffered great damage. The flood washed away their bridge across the Humboldt River at Palisade, and several smaller ones over Pine Creek, where the stream assumed the proportions of a raging torrent. In some places the entire roadbed is gone, and the whole aspect of the river was changed.

Ranchers suffered some loss to fences, bridges, and stock, but no human lives were lost in the floods as far as has been learned. I am unable to state the exact stage of the stream here, but I know it rose more than 6 feet in those few days.

Mr. T. Bergerson at Battle Mountain says:

The floods in this region were caused by a sudden thaw accompanying a chinook wind on February 28.

The valley between Battle Mountain and Austin is something like 93 miles long, and in places over 20 miles wide. This valley was covered, on the average, with 2 feet of snow prior to this thaw. The only outlet to the valley is the Reese River, usually but a little creek.

During the flood the culverts under the Southern Pacific tracks were not large enough to carry the mass of water before them, and hundreds of feet of the track were destroyed.

The older Indians around here claim that the snowfall of the past winter was the heaviest that ever occurred in their recollection. The Humboldt River was over 6 miles wide in places, flooding ranches and drowning hundreds of cattle and other animals.

The Nevada Central track, from Austin to Battle Mountain, was entirely washed away, and it can not be made passable within 2 months.

Mr. J. Buckley writes from Golconda:

At Eglon, and at Tule, 6 and 12 miles, respectively, from Golconda, flood waters from the foothills, washed out from 25 to 100 feet of the track in places, necessitating a large amount of bridge and rock work by trains. This delayed traffic from 24 to 36 hours. No damage was done to the large steel bridge crossing the Humboldt at this point, though the Western Pacific pile bridge was partially wrecked.

The Humboldt on March 1 was higher than it has been for 15 years, but on the 7th, the crest of the flood arrived, bringing the water up to a higher mark than was ever before recorded. Considerable damage was done to county bridges and to ranches. There was no livestock loss here though a number of the ranches had to be abandoned temporarily on account of the high water. In the vicinity of Iron Point, 14 miles east of here, a large number of cattle and horses were drowned. It was thought they had been corralled on high ground above possible floods, but the water swept over the entire region.

Mr. A. F. Langwith writes also from Golconda:

The loss of cattle at Iron Point is variously estimated at from 800 to 1,500. Many are still in the water (March 14) and many carcasses are floating in the stream, and an unknown number marooned on the high places are being kept alive by hay taken to them on rafts.

The Official in Charge of the Local Office of the Weather Bureau at Winnemucca reports:

The Humboldt River, which was becoming dangerously high during the last few days of February, reached its maximum height here about midnight of the 7–8th, when water was running over the approaches to the county bridge to a depth of about 2 feet. The rise was due to the advance down the Humboldt of a wave of high water, reported in Palisade Canyon March 1, where several Southern Pacific trestles and nearly all of the Western Pacific track were washed away. The only material damage done here was to the dirt approaches to the bridge which were washed out in many places. The flood reached Lovelock, 75 miles west, on the 12th and the bridges at that place were destroyed. Considerable stock was reported drowned at all points in the valley. Since the 8th the river has been slowly falling at this point, being about 4 feet lower.

The Official in Charge of the Local Office of the Weather Bureau at Reno, furnishes the following notes on the flood:

Rapid melting of snow caused the waters to rush over the icy floors into the tributaries of the Humboldt River and the headwaters of this stream were at the flood stage, from about the point where Palisade is located to the sources of the streams, on the last day of February and the first of March. The crest of the flood reached Winnemucca near midnight of the 7–8th, and the vicinity of Lovelock about the 12th, although it does not seem to have been so well marked when it reached the latter place.

Reports indicate that little damage was done in the valleys of the tributaries to the Humboldt. The melting of the snow at these higher altitudes was not sufficient to cause damaging floods, but was an advantage to many localities in melting a good deal of snow which was not needed. Some slight damage was done to roads, but no more than is usual for the spring season. In the Humboldt Valley the chief damage was done to railroads. Ranchers suffered some damage to fences, bridges, and the loss of stock all along the valley. At Elko slight damage resulted from the waters flooding the town, and at Palisade several buildings were washed away.

It seems that much damage was done in the Lovelock Valley by the Humboldt floods. This is a farming country and it seems that all of the irrigation dams were injured or totally washed away. The dams for three large irrigation systems, viz: the Marker Dam, the Union Canal Dam, and the Irish-American Dam, were washed away. The banks of the river channel were eroded to 3 times their original distance apart. The lower half of the valley is inundated and 1,500 acres of previously productive land will not produce a crop this year. The loss in Lovelock Valley is placed at $100,000 by Mr. John S. Case, editor of the Lovelock Tribune, and the postmaster believes this to be a conservative estimate.

### WINDSTORM OF MARCH 29, 1910.

Beginning about midnight, March 28, a windstorm swept over northern Utah, which was particularly severe over Great Salt Lake, where the waves were high and violent. The wind blew until the middle of the afternoon, March 29, from the northwest. The grade of the Southern Pacific Railroad at a point just west of Promontory Point, a projection from the north in the middle of the lake, was considerably damaged, and traffic was delayed several hours. The wind velocity was reported to be 70 miles an hour at the Midlake station.

The Western Pacific Railroad grade across the southern end of the lake was badly weakened for several miles, and traffic was suspended, and up to the middle of April had not been resumed. The waves from the north were very high, and the grade was quickly eaten away by the action of the heavy water.

### CLARK ROAD REPAIRS.

The work of repairing the line of the San Pedro, Los Angeles, and Salt Lake Railroad that suffered from washouts in and near Caliente, Nev., last January, has commenced. The intention is to rebuild the old line through Meadow Valley wash and use

it for train service temporarily, until the new line, located at a higher elevation, is ready for use.

The Las Vegas Age quotes Vice-President J. Ross Clark as follows:

A special corps of engineers will take the field at once for the running of the new line, which will be pushed as rapidly as possible. Meantime the old road will be rebuilt. This will give us a safe line during the summer, and will give us a line to work from in our building project for the new line.

The cost of reconstructing the old line will not exceed $400,000, but what the new line will cost we do not know. There is a large part of the old line that can be used, and most of the big steel bridges in the canyon are in excellent shape.

Our supplies were ordered long ago, and a great part of them already are on hand here, and in Salt Lake. We will work on the old line from both ends at once, and will probably have it in shape within 90 days. After that the new line will be completed, and the old one will be taken up. In many places we will be able to use the old line all the time, so our cost on the new will not be excessive.

Mr. Bancroft agrees with me in the estimate of the cost; the reports sent out from Salt Lake that our loss is $12,000,000 are absolutely without foundation.

## RELATION OF PRECIPITATION AND STREAM FLOW TO IRRIGATION PROJECTS.

By DANIEL W. MEAD, Consulting Engineer, Madison, Wis.

In order that any irrigation project be financially and agriculturally successful, an adequate supply of water must be absolutely assured for practically every irrigation season. A thorough consideration of this matter is, therefore, of primary importance.

The best information concerning the amount of water that can be obtained from any source is the actual and continuous measurement of the quantity of water from that source for a sufficient length of time to cover all varying climatic conditions which affect the flow of water from year to year, from season to season, and from day to day.

Unfortunately, in many cases these observations are not available for a long period of years, but observations covering a short period, while affording no criterion for judging the variations which will take place in the flow of a stream during a long term of years, are of value when comparing them with other and more extended records.

### VARIATIONS IN STREAM FLOW.

The great variations that take place from year to year in the run-off of a stream is well shown by the measured annual discharge of the Provo River. The discharge of this stream has been measured almost continuously since 1889, or for about 20 years. For the year 1902 no flow records are available, and for some other years records of measurements are missing. In the following discussion of this stream the missing data have been supplied by adding to the actual measurement of flow, the mean discharges calculated from the actual flow for other years, for the missing months, so that the estimates as given are nearly complete and fairly accurate. Figure 1 gives the total annual discharge of the Provo River for each year from 1889 to 1908, inclusive, both in inches in depth and in acre feet per square mile from the drainage area. It will be noted that the annual discharge has varied from a minimum of 6.18 inches in 1905 to 14.42 inches in 1907. The maximum being 234 per cent. of the minimum.

It is evident, therefore, that it is necessary to observe stream flow for a considerable term of years in order to cover all probable variations, for in 20 years of observations on the Provo River, the flow of no other years has approached very closely to either the maximum flow of 1907 or the minimum flow of 1905.

### EFFECT OF PRECIPITATION ON STREAM FLOW.

It is obvious that precipitation, including both rain and snow, is the primary cause of stream flow, and it would naturally be expected that an increase in rainfall will result in an increase in stream flow. While, as a rule, this is true, there are found to be radical exceptions to this rule. These exceptions are due to the fact that other conditions, besides the total amount of precipitation, enter into the problem.

It is obvious that not all of the precipitation that falls on a drainage area will flow away in the stream. Much of the precipitation will be evaporated and a considerable amount may seep into the ground and flow away through the soil and subsoil, perhaps to some distant point outside of the river basin, or may reappear at some lower level on the same drainage basin and augment the stream flow weeks or months after the rain from which it came has ceased. This condition gives rise to the continuous flow that takes place in streams often during long dry periods during which no precipitation occurs.

The manner of the occurrence of rainfall is important, for if a given rainfall be light, a much greater percentage is evaporated, and a less quantity will flow in the stream. In the same manner a heavy rainfall may give rise to flood conditions and a greater percentage will flow away in the stream, and less be lost in evaporation. The condition of the soil and its porosity are also important. If the soil has been recently saturated it will not take up the quantity of water that will be taken up if no rain has fallen for a considerable period, and hence the greater percentage will be delivered to the stream when one rainstorm rapidly succeeds another. Temperature, also, has a decided influence on evaporation, hence, if the rainfall occurs during high temperature conditions, a greater proportion will be evaporated and lost to the stream. If the precipitation occurs during low temperature it may be held in snow and delivered to the stream when the temperature conditions are again favorable for such results.

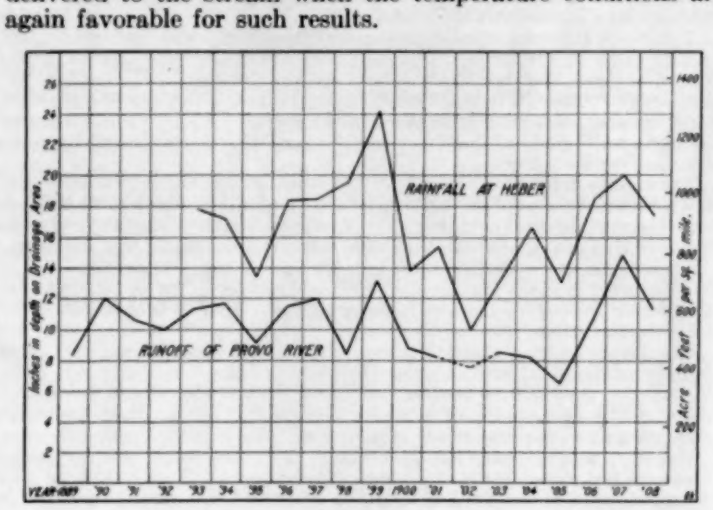
RAINFALL AT HEBER
RUNOFF OF PROVO RIVER
Inches in depth on Drainage Area.
Acre feet per sq. mile.
YEAR
'89 '90 '91 '92 '93 '94 '95 '96 '97 '98 '99 1900 '01 '02 '03 '04 '05 '06 '07 '08

FIG. 1.

The slope of the ground, or the topographical conditions of the drainage area also influence stream flow, for if the slope be abrupt the water will run quickly to the stream, while if the drainage area be level the delivery will be slow and evaporation and seepage will have greater effect.

From these conditions it will be seen that among many important influences which modify and control the flow of a stream are:

1. Quantity of rainfall.
2. Intensity, or manner of occurrence of rainfall.
3. Temperature.
4. Geological conditions.
5. Topographical conditions.

It is usually impossible to gage all these conditions with accuracy, so that conclusions must be more or less approximate on account of imperfect knowledge of the relative weight of each of the controlling conditions.

That stream flow actually varies with rainfall, although not in direct proportion, and that it is always less in amount, is

clearly shown in fig. 1, which not only shows the run-off of the Provo River, but also the rainfall or precipitation on its drainage area based on the Weather Bureau records at Heber, which place lies about in the center of the drainage area and is probably fairly representative of the rainfall conditions.

Other things being equal, there is no reason to believe that one square mile of any one drainage area will deliver to a stream any greater quantity of water that a square mile of any other drainage area will deliver to the stream to which it is tributary.

Streams to flow similarly, therefore, must flow under similar conditions. As the rainfall is the primary and most important cause of stream flow, it must be expected that streams otherwise similar will be greatly influenced by the quantity of precipitation.

Having only limited data covering the flow of a certain stream, it will be necessary to determine its probable past and consequent future flow by comparison with other streams more or less similarly situated and controlled by conditions more or less identical.

Graphs of the flow of streams for which long records are obtainable may be compared with those for which there are only limited records. Then, noting the points of similarity or disparity, the long record may be used to complete the short record. This method, while not as satisfactory to an engineer as having the actual data for the stream in question, is used with good results.

TABLE 1.—*Climatological data for March, 1910. District No. 10, Great Basin.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Wyoming.* | | | | | | | | | | | | | | | | | | | | |
| Border | Uinta | 6,085 | 8 | 36.8 | +11.0 | 67 | 21† | 10 | 6 | 37 | 0.29 | − 1.26 | 0.11 | ..... | 4 | 21 | 7 | 3 | w. | S. W. Condron. |
| Cokeville | do | | | 34.6 | | 62 | 19 | 13 | 6† | 35 | 0.72 | | 0.31 | 2.0 | 5 | 23 | 4 | 4 | nw. | E. J. Tuckett. |
| Evanston | do | 6,860 | 14 | 39.6 | +10.4 | 65 | 19† | 17 | 10† | 37 | 0.72 | − 0.78 | 0.47 | 2.0 | 3 | 19 | 9 | 3 | w. | Frank Tucker. |
| *Idaho.* | | | | | | | | | | | | | | | | | | | | |
| Geneva | Bear | | 2 | | | | | | | | 0.46 | | 0.32 | 0.0 | 2 | 26 | 2 | 3 | | F. W. Boehme. |
| Grace | Bannock | 5,405 | 3 | | | | | | | | 0.67 | | 0.35 | T. | 3 | 19 | 2 | 10 | s. | Cyril B. Dickson. |
| Oxford | do | 4,750 | 2 | | | | | | | | | | | | | | | | | Edwin Smith. |
| Paris | Bear Lake | 5,946 | 16 | 37.4 | + 9.3 | 66 | 20 | 13 | 9 | 34 | 0.25 | − 1.11 | 0.09 | 7.5 | 3 | 22 | 9 | 0 | w. | John Norton. |
| Stone | Oneida | 4,520 | 2 | 43.1 | | 74 | 21 | 14 | 5† | 50 | 0.12 | | 0.12 | 0.0 | 1 | 23 | 5 | 3 | n. | Thos. W. Roe. |
| Weston | do | 4,460 | 12 | 44.2 | + 7.1 | 73 | 21 | 20 | 10† | 39 | 0.87 | − 0.99 | 0.38 | 0.0 | 3 | 21 | 2 | 8 | n. | Wm. Chatterton. |
| *Utah.* | | | | | | | | | | | | | | | | | | | | |
| Alpine | Utah | 4,900 | 13 | | | | | | | | 1.05 | | 0.40 | 0.0 | 3 | 20 | 8 | 3 | | George Stevens. |
| Annabella | Sevier | 5,250 | 5 | | | | | | | | 0.13 | | 0.09 | 0.0 | 2 | | | | | J. W. Fairbanks. |
| Beaver | Beaver | 6,000 | 7 | 50.0 | | 69 | 4† | 21 | 29 | 32 | 1.38 | | 0.62 | 9.5 | 5 | 16 | 10 | 5 | sw. | James Connell. |
| Black Rock | Millard | 4,872 | 10 | 46.1 | | 76 | 21 | 17 | 10 | 47 | 0.50 | | 0.20 | ..... | 3 | 13 | 6 | 12 | ..... | W. D. Livingston. |
| Castle Rock | Summit | 6,244 | 7 | | | | | | | | 0.31 | | 0.10 | | 4 | 19 | 5 | 7 | | David Moore. |
| Cedar City | Iron | 5,750 | 5 | 48.8[b] | | 73[b] | 4 | 22[b] | 10† | 35[b] | 0.52 | | 0.28 | 0.0 | 5 | 21 | 4 | 6 | ne. | Parley Dalley. |
| Corinne | Boxelder | 4,240 | 40 | 47.4 | + 7.4 | 76 | 22 | 25 | 27† | 43 | 0.60 | − 0.85 | 0.60 | 0.0 | 1 | 13 | 15 | 3 | ne. | A. C. Murphy. |
| Deseret | Millard | 4,541 | 16 | 47.2 | + 6.7 | 76 | 21 | 18 | 10† | 49 | 0.60 | − 0.39 | 0.35 | 0.0 | 2 | 19 | 5 | 7 | n. | S. W. Western. |
| Enterprise | Washington | 4,270 | 2 | | | | | | | | | | | | | | | | | John Day. |
| Farmington | Davis | 4,267 | 10 | 47.1 | | 76 | 21 | 27 | 30 | 34 | 0.83 | | 0.58 | 2.0 | 2 | 23 | 7 | 1 | sw. | Charles Boylin. |
| Fillmore | Millard | 5,100 | 20 | 50.8 | + 9.8 | 78 | 20 | 23 | 10 | 41 | 0.88 | − 1.10 | 0.43 | 0.0 | 3 | | | | | J. J. Starley. |
| Friese Summit | Wasatch | | | | | | | | | | 1.27 | | 0.51 | 12.5 | 3 | 19 | 8 | 4 | s. | Victor A. Friese. |
| Frisco | Beaver | 7,318 | 16 | 46.8 | + 8.3 | 70 | 5 | 20 | 10 | 35 | 0.43 | − 0.35 | 0.28 | 0.6 | 2 | | | | | E. R. Smyth. |
| Garrison | Millard | | 7 | 49.8[a] | | 74[a] | 4 | 18[a] | 30 | 46[a] | T. | | | | | 9 | 9 | 3 | s. | E. M. Smith. |
| Government Creek | Tooele | 5,277 | 10 | 46.6 | | 72 | 21 | 22 | 10† | 41 | 0.81 | | 0.43 | 4.0 | 4 | 18 | 6 | 7 | s. | Walter James. |
| Grantsville | do | | | | | | | | | | 0.30 | | 0.18 | | 2 | | | | | Allen J. Fraser. |
| Heber | Wasatch | 5,606 | 17 | 42.0 | + 8.3 | 70 | 19† | 18 | 10† | 40 | 0.95 | − 1.39 | 0.30 | 4.0 | 5 | 16 | 8 | 7 | s. | John Crook. |
| Henefer | Summit | 5,301 | 11 | 43.2 | | 73 | 20† | 17 | 30 | 42 | 1.60 | | 0.60 | 3.8 | 5 | 18 | 5 | 8 | w. | Wm. Brewer. |
| Ibapah (near) | Tooele | 7,500 | 5 | 39.8[a] | | 63[a] | 17 | 10[a] | 28 | 36[a] | 0.20 | | 0.15 | 1.4 | 3 | 16 | 6 | 9 | w. | J. S. Lawton. |
| Ibex | Millard | | | 52.4 | | 79 | 17 | 25 | 30 | 39 | 0.17 | | 0.17 | 0.0 | 1 | 13 | 4 | 14 | s. | John J. Watson. |
| International | Tooele | 5,370 | | 48.2[a] | | 72[a] | 21 | 27[a] | 10 | 26[a] | 0.93[a] | | 0.44[a] | 1.7[a] | 6[a] | 17 | 6 | 8 | se.[a] | I. S & R. Co. |
| Kanosh | Millard | 5,250 | 2 | | | | | | | | 0.56 | | 0.32 | | 3 | | | | | Geo. Crane. |
| Kelton | Boxelder | 4,230 | 32 | 41.7 | | 67 | 19† | 20 | 12 | 40 | T. | − 0.52 | T. | 0.0 | 0 | 13 | 14 | 4 | ne. | F. W. Klock. |
| Levan | Juab | 5,010 | 20 | 46.4 | + 9.8 | 74 | 21 | 21 | 30 | 35 | 0.73 | − 1.48 | 0.45 | T. | 4 | 13 | 12 | 6 | sw. | Wm. Brown. |
| Logan | Cache | 4,507 | 19 | 45.0 | + 9.8 | 69 | 21 | 25 | 29 | 29 | 1.25 | − 0.75 | 0.70 | 2.0 | 2 | | | | n. | Edgar Brossard. |
| Lucin | Boxelder | 4,504 | 6 | 45.6 | | 72 | 21 | 25 | 10† | 41 | 0.00 | | 0.00 | 0.0 | 0 | 16 | 11 | 0 | | C. J. Burke. |
| Manti | Sanpete | 5,575 | 16 | 39.6 | + 1.6 | 63 | 20 | 20 | 30 | 26 | 0.65 | − 1.03 | 0.41 | 0.0 | 3 | 14 | 5 | 12 | | J. M. Anderson. |
| Marion | Summit | 6,750 | 6 | | | | | | | | 0.81 | | 0.32 | 4.5 | 5 | 12 | 9 | 10 | s. | Jas. Woolstenhulme. |
| Marysvale | Piute | 6,180 | 11 | 44.7 | | 72 | 20 | 17 | 11† | 50 | 0.36 | | 0.17 | T. | 5 | 11 | 10 | 10 | se. | John W. Henry. |
| Meadowville | Rich | 6,200 | 11 | 37.9 | | 66 | 20 | 12 | 10 | 36 | 0.53 | | 0.34 | T. | 4 | 22 | 2 | 7 | s. | J. S. Moffat. |
| Milford | Beaver | 4,962 | 6 | 50.4 | | 76 | 20† | 22 | 27† | 40 | 0.50 | | 0.30 | 0.0 | 2 | 12 | 4 | 15 | sw. | C. M. Temple. |
| Millville | Cache | 4,848 | 15 | | | | | | | | 1.06 | − 1.06 | 0.48 | ..... | 7 | 21 | 3 | 7 | s. | Fred Yeates. |
| Minersville | Beaver | 5,070 | 13 | | | | | | | | 0.88 | | 0.45 | | 5 | | | | | Geo. Roberts, sr. |
| Modena | Iron | 5,479 | 10 | 44.4 | + 5.2 | 71 | 5 | 20 | 11 | 42 | 0.80 | − 0.47 | 0.34 | 4.8 | 5 | 12 | 13 | 6 | w. | U. S. Weather Bureau. |
| Morgan | Morgan | 508 | 7 | | | | | | | | | | | | | | | | | W. Visick. |
| Moroni | Sanpete | 5,519 | 2 | | | | | | | | 0.48 | | 0.34 | T. | 3 | 3 | 27 | 1 | sw. | B. F. Eliason. |
| Mount Nebo | Utah | 4,650 | 9 | 47.0 | | 76 | 20† | 22 | 10 | 36 | 0.39 | | 0.20 | 0.0 | 3 | 20 | 6 | 5 | n. | D. C. Walkey. |
| Mount Pleasant | Sanpete | 5,850 | 18 | 45.6[b] | + 8.0 | 73[b] | 21 | 19[b] | 30 | 39[b] | 0.18[b] | − 1.38 | 0.10[b] | 2.0[b] | 3[b] | 11[c] | 9[c] | 6[c] | ..... | C. B. Scoville. |
| Nephi | Juab | 6,059 | 7 | | | | | | | | 0.81 | | 0.76 | | 3 | 18 | 10 | 3 | sw. | A. M. Madsen. |
| Oak City | Millard | 4,900 | 6 | 50.0 | | 79 | 21 | 21 | 10† | 44 | 0.95 | | 0.63 | 0.0 | 2 | 18 | 9 | 4 | ..... | Peter Nielson. |
| Ogden | Weber | 4,310 | 9 | 48.4 | + 6.9 | 76 | 21 | 30 | 6† | 28 | 1.52 | − 1.34 | 0.86 | ..... | 3 | 24 | 5 | 2 | nw. | Enoch Farr. |
| Panguitch Lake | Garfield | 9,000 | 1 | | | | | | | | 1.00 | | 0.45 | 8.0 | 4 | 10 | 18 | 3 | s. | Jas. E. Prince. |
| Park City | Summit | 7,800 | 13 | 42.4 | +12.4 | 71 | 10† | 15 | 11 | 49 | 0.09 | − 3.81 | 0.04 | ..... | 5 | 20 | 10 | 1 | ..... | Irvin Evans. |
| Parowan | Iron | 5,970 | 19 | 47.4 | + 8.7 | 82 | 16 | 20 | 13 | 50 | 0.42 | − 1.46 | 0.20 | | 3 | 24 | 0 | 7 | ..... | S. M. Matheson. |
| Payson | Utah | 4,637 | 7 | | | | | | | | 1.24 | | 0.50 | T. | 5 | 9 | 12 | 10 | sw. | D. L. Coombs. |
| Pinto | Washington | 5,907 | 13 | 42.0 | + 6.6 | 69 | 3† | 17 | 12 | 48 | 0.84 | − 1.44 | 0.46 | 0.0 | 4 | 16 | 10 | 5 | s. | J. H. Harrison. |
| Promontory | Boxelder | 4,913 | 39 | | | | | | | | 0.10 | − 0.67 | 0.10 | 1.0 | 1 | | | | | F. C. Houghton. |
| Provo | Utah | 4,532 | 18 | 49.7 | + 9.6 | 77 | 20† | 25 | 30 | 37 | 1.17 | − 0.56 | 0.65 | ..... | 3 | 13 | 14 | 4 | n. | James A. Oliver. |
| Randolph | Rich | 6,442 | 7 | | | | | | | | 0.31 | | 0.18 | | 4 | 26 | 2 | 3 | sw. | William Rex. |
| Richfield | Sevier | 5,350 | 20 | 47.6[a] | + 7.8 | 79[a] | 21 | 20[a] | 30 | 49[a] | 0.20[a] | − 0.89 | 0.20[a] | 0.0[a] | 1[a] | 15[a] | 3[a] | 6[a] | ..... | Joseph J. Jensen. |
| Saltair | Salt Lake | 4,220 | 7 | | | | | | | | | | | | | | | | | E. J. Bench. |
| Salt Lake City | do | 4,366 | 36 | 49.6 | + 8.2 | 74 | 21 | 30 | 30 | 36 | 1.58 | − 0.42 | 0.71 | 1.5 | 5 | 18 | 10 | 3 | se. | U. S. Weather Bureau. |
| Scipio | Millard | 5,260 | 15 | 44.6 | + 6.5 | 75 | 21 | 15 | 30 | 48 | 1.30 | − 0.93 | 1.00 | T. | 3 | 12 | 8 | 11 | sw. | Thos. Memmott. |
| Silver City | Juab | 6,127 | | | | | | | | | | | | | | | | | | J. L. Stark. |
| Spanish Fork Canyon | Utah | 4,585 | 1 | 50.2 | | 76 | 22 | 26 | 30 | 41 | 1.39 | | 0.66 | ..... | 4 | 14 | 6 | 11 | ..... | U. S. Reclamation Service. |
| Thistle | Utah | 5,075 | 18 | | | | | | | | | | | | | | | | | Denver & Rio Grande Ry. |
| Tooele | Tooele | 4,900 | 14 | 47.2 | + 7.6 | 75 | 18† | 24 | 10 | 33 | 0.96 | − 1.17 | 0.60 | ..... | 2 | 9 | 17 | 5 | nw. | E. A. Bonelli. |
| Utah Lake Pumping Sta. | Utah | 4,500 | 5 | 48.8 | | 73 | 22 | 26 | 29† | 31 | 1.22 | | 0.51 | 0.0 | 4 | 19 | 7 | 5 | ..... | W. A. Knight. |
| Woodruff | Rich | 6,500 | 12 | 39.7 | | 67 | 22 | 15 | 30 | 41 | 0.05 | | 0.02 | 0.5 | 4 | 23 | 1 | 7 | w. | B. D. Brown. |
| *Oregon.* | | | | | | | | | | | | | | | | | | | | |
| Burns | Harney | 4,157 | 20 | | | | | | | | | | | | | | | | | J. C. Welcome, jr. |
| Christmas Lake | Lake | 4,320 | 2 | 42.0 | | 66 | 13 | 14 | 29 | 44 | 0.43 | | 0.32 | 0.0 | 5 | 8 | 12 | 11 | sw. | John C. Green. |
| Paisley | do | 4,500 | 6 | 46.2 | + 6.9 | 67 | 13 | 23 | 24 | 32 | 0.67 | − 4.20 | 0.27 | 0.0 | 5 | 19 | 6 | 6 | ..... | E. C. Woodward. |
| "P" Ranch | Harney | 4,300 | | | | | | | | | | | | | | | | | | J. P. Jefferson. |
| Silver Lake | Lake | 4,700 | 14 | | | | | | | | | | | | | | | | | Wm. Holder. |
| *California.* | | | | | | | | | | | | | | | | | | | | |
| Al Tahoe | Eldorado | 6,235 | .... | 37.9[b] | | 64[b] | 3 | 13[b] | 24 | 43[b] | 1.17[b] | | 0.52[b] | 5.2[b] | 6[b] | 15 | 6 | 10 | sw.[b] | A. R. Sprague. |
| Boca | Nevada | | .... | | | | | | | | | | | | | | | | | Southern Pacific Co. |
| Glen Alpine Springs | Eldorado | 6,850 | .... | 36.4[d] | | 59[d] | 7 | 11[d] | 25 | 38[d] | 4.96[d] | | 2.05[d] | 21.0[d] | 8[d] | 9 | 4 | 18 | s.[d] | E. W. Porteous. |
| Tahoe | Placer | 6,240 | .... | 37.2 | | 60 | 4† | 16 | 25 | 31 | 2.20 | | 1.40 | 1.7 | 3 | 16 | 5 | 10 | w. | Robert M. Watson. |
| Truckee | Nevada | 5,819 | 39 | 32.0 | − 0.9 | 50 | 18 | 18 | 14† | 26 | 0.24 | − 3.90 | 0.20 | 2.0 | 3 | 21 | 0 | 10 | ..... | Southern Pacific Co. |
| *Nevada.* | | | | | | | | | | | | | | | | | | | | |
| Aurora | Esmeralda | | .... | 41.1 | | 65 | 2† | 15 | 24 | 40 | T. | | T. | 0.0 | 0 | 13 | 7 | 11 | n. | |
| Austin | Lander | 6,594 | 21 | | | | | | | | | | | | | | | | | Bert Acree. |
| Battle Mountain | do | 4,843 | 39 | 46.6 | + 5.1 | 78 | 31 | 22 | 29 | 46 | 0.08 | − 0.66 | 0.08 | T. | 1 | 14 | 11 | 6 | w. | Southern Pacific Co. |
| Beowawe | Eureka | 4,905 | 39 | 49.6 | + 8.4 | 71 | 19 | 27 | 29 | 35 | 0.00 | − 0.66 | 0.00 | 0.0 | 0 | 28 | 1 | 2 | s. | Do. |
| Carlin | Elko | 5,232 | 39 | 45.6 | +11.0 | 78 | 13 | 20 | 29† | 48 | 0.00 | − 1.10 | 0.00 | 0.0 | 0 | 26 | 0 | 5 | sw. | Do. |
| Carson Dam | Churchill | 4,032 | 3 | 50.0 | | 72 | 3 | 27 | 30 | 38 | T. | | T. | 0.0 | 0 | 16 | 6 | 9 | e. | U. S. Reclamation Service. |
| Cherry Creek | White Pine | 6,450 | 1 | 43.8 | | 66 | 17 | 21 | 30 | 35 | 0.11 | | 0.06 | 1.3 | 4 | 11 | 15 | 5 | w. | J. H. Leishman. |
| Clover Valley | Elko | 6,000 | 10 | | | | | | | | | | | | | | | | | I. F. Wiseman. |
| Cobre | do | | | 40.2 | + 6.2 | 65 | 19 | 17 | 10† | 45 | T. | − 1.30 | T. | T. | 0 | 15 | 3 | 13 | nw. | Southern Pacific Co. |
| Columbia | Esmeralda | 5,750 | 3 | 49.6 | | 72 | 3 | 25 | 30 | 39 | 0.29 | | 0.29 | T. | 1 | 13 | 7 | 11 | se. | A. Booth. |
| Dutton | Elko | 5,100 | 2 | | | | | | | | | | | | | | | | | Golconda Cattle Co. |
| Elko | do | 5,342 | 39 | 43.8 | + 7.4 | 78 | 18 | 22 | 24† | 48 | 0.06 | − 1.14 | 0.06 | T. | 1 | 12 | 13 | 6 | ne. | Southern Pacific Co |
| Ely | White Pine | 6,421 | 19 | 36.3 | + 3.4 | 60 | 28 | 15 | 15 | 34 | 0.13 | − 1.58 | 0.08 | 0.6 | 2 | 26 | 4 | 1 | w. | G. C. Hunting. |
| Eureka | Eureka | 6,500 | 7 | 44.0 | + 7.7 | 67 | 31 | 22 | 29† | 39 | 0.81 | − 1.55 | 0.25 | 6.5 | 5 | 12 | 6 | 13 | s. | Clay Simms. |

TABLE 1.—*Climatological data for March, 1910. District No. 10*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Nevada*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Fallon | Churchill | 3,965 | 5 | 48.6 | + 7.3 | 73 | 31† | 24 | 30 | 43 | 0.10 | − 0.43 | 0.07 | T. | 2 | 22 | 4 | 5 | ne. | U. S. Reclamation Service. |
| Fernley | Lyon | 4,200 | 2 | 49.4 | + 7.8 | 76 | 3 | 25 | 30 | 40 | 0.10 | − 0.48 | 0.10 | T. | 1 | 17 | 5 | 9 | nw. | Mrs. A. J. Rankin. |
| Gardnerville | Douglas | 4,830 | 10 | 48.6 | + 6.7 | 74 | 2 | 24 | 25 | 40 | 0.20 | − 1.42 | 0.20 | 2.0 | 1 | 9 | 18 | 4 | e. | Wm. Dangberg. |
| Geyser | Lincoln | ..... | 5 | 41.9[a] | ..... | 70[a] | 3† | 11[a] | 10† | 52[a] | T.[a] | ..... | T.[a] | ..... | 0[a] | 12 | 10 | 9 | s.[a] | Mrs. J. F. Wambolt. |
| Glenbrook | Douglas | ..... | ..... | 38.6 | ..... | 59 | 2 | 20 | 24 | 31 | 0.35 | ..... | 0.25 | 2.0 | 2 | 17 | 14 | 0 | sw. | C. C. Henningsen. |
| Golconda | Humboldt | 4,697 | 31 | 46.3 | + 5.6 | 70 | 19 | 24 | 29 | 35 | 0.20 | − 0.52 | 0.20 | 0.0 | 1 | 20 | 11 | 0 | sw. | Southren Pacific Co |
| Halleck | Elko | 5,631 | 17 | 41.7[c] | + 9.3 | 70[c] | 21 | 20[c] | 3 | 37[c] | 0.00[c] | ..... | 0.00[c] | 0.0[c] | 0[c] | 21 | 10 | 0 | ..... | Do. |
| Jean | Clark | 2,074 | 2 | 57.4[c] | ..... | 88[c] | 5† | 30[c] | 11 | 53[c] | 0.00[c] | ..... | 0.00[c] | 0.0[c] | 0[c] | 20 | 0 | 11 | sw.[c] | Salt Lake Route. |
| Leetville | Churchill | 4,020 | 3 | 49.8 | ..... | 75 | 31 | 25 | 29 | 44 | 0.15 | ..... | 0.15 | 0.0 | 1 | 20 | 9 | 2 | e. | U. S. Reclamation Service. |
| Lewers Ranch | Washoe | 5,500 | 22 | 47.4 | + 7.8 | 70 | 7† | 24 | 24† | 41 | 0.50 | − 3.41 | 0.35 | 1.0 | 3 | 3 | 22 | 6 | ..... | Ross Lewers. |
| Lovelock | Humboldt | 3,977 | 7 | 51.5 | + 8.0 | 80 | 14 | 26 | 9 | 48 | 0.02 | − 0.25 | 0.01 | 0.0 | 2 | ..... | ..... | ..... | ..... | J. S. Case. |
| McAfees Ranch | Esmeralda | 4,835 | 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C. H. Rodenkirch. |
| Millett | Nye | ..... | 2 | 44.8 | ..... | 70 | 3† | 17 | 30 | 49 | 0.34 | ..... | 0.14 | 0.0 | 4 | 13 | 11 | 7 | s. | Fred J. Jones. |
| Mina | Esmeralda | 4,600 | 3 | 50.2 | ..... | 79 | 19 | 21 | 21 | 51 | 0.00 | ..... | 0.00 | 0.0 | 0 | 15 | 4 | 12 | sw. | Southern Pacific Co. |
| Mount Rose Ranch | Washoe | ..... | ..... | 41.4 | ..... | 63 | 2† | 18 | 26† | 42 | 1.20 | ..... | 0.40 | 9.0 | 4 | 18 | 1 | 12 | sw. | Fred Elkins. |
| Palmetto | Esmeralda | 6,780 | 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Isaac McConnell. |
| Potts | Nye | 6,990 | 17 | 40.6 | + 7.7 | 63 | 4 | 16 | 30 | 40 | 0.05 | − 0.94 | 0.05 | 0.0 | 1 | 8 | 6 | 17 | n. | Miss Mamie Potts. |
| Quinn River Ranch | Humboldt | 4,850 | 8 | 45.5[b] | ..... | 72[b] | 13† | 22[b] | 5 | 44[b] | 0.66 | ..... | 0.22 | 0.0 | 5 | ..... | ..... | ..... | w. | F. M. Payne. |
| Reno | Washoe | 4,532 | 39 | 47.6 | + 7.5 | 71 | 3 | 24 | 25 | 42 | 0.22 | − 0.70 | 0.14 | 0.2 | 4 | 12 | 11 | 8 | sw. | U. S. Weather Bureau. |
| Soda Lake | Churchill | 4,534 | 3 | 49.4 | ..... | 71 | 18 | 26 | 30 | 44 | 0.04 | ..... | 0.03 | T. | 2 | 15 | 11 | 5 | ne. | U. S. Reclamation Service. |
| Tecoma | Elko | 4,812 | 32 | 43.0 | + 6.2 | 72 | 21 | 10 | 1 | 46 | 0.00 | − 1.55 | 0.00 | 0.0 | 0 | 18 | 8 | 5 | s. | Southern Pacific Co. |
| Tonopah | Nye | 6,090 | 3 | 47.4 | ..... | 68 | 3 | 27 | 28 | 28 | 0.20 | ..... | 0.16 | T. | 2 | 12 | 14 | 5 | se. | U. S. Weather Bureau. |
| Wabuska | Lyon | 4,347 | 7 | 47.2[c] | ..... | 72[c] | 4 | 20[c] | 5† | 48[c] | T.[c] | ..... | T.[c] | 0.0[c] | 0[c] | 14 | 8 | 9 | sw.[c] | J. G. Young. |
| Wells | Elko | 5,631 | 38 | 43.6 | ..... | 70 | 18 | 23 | 28 | 38 | 0.00 | ..... | 0.00 | 0.0 | 0 | 14 | 0 | 17 | s. | Southern Pacific Co. |
| Winnemucca | Humboldt | 4,432 | 31 | 48.1 | + 8.5 | 72 | 13 | 28 | 29 | 37 | 0.24 | − 0.71 | 0.08 | 0.3 | 5 | 11 | 9 | 11 | ne. | U. S. Weather Bureau. |

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1910. District No. 10, Great Basin.*

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Wyoming.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Border | Bear | | .06 | | | | | | | | | | | | | | | | | | | .03 | .09 | T. | T. | | T. | | .11 | | | | 0.29 |
| Cokeville | do | .09 | | | | | | | | | | | | | | | | | | | | T. | | .31 | | | .20 | .08 | | .04 | | | 0.72 |
| Evanston | do | | | | | | | | | T. | | | | | | | | | | | | | | .47 | | | .17 | | .08 | T. | | | 0.72 |
| *Idaho.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Geneva | Bear | .14 | | | | | | | | | | | | | | | | | | | | | | .32 | | | | | | | | | 0.46 |
| Grace | do | .20 | T. | | | | | | | | | | | | | | | | | | .12 | | | T. | T. | | | | .35 | | | | 0.67 |
| Oxford | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paris | do | | | | | | | | | | | | | | | | | | | | | | | .08 | | | .08 | .09 | | | | | 0.25 |
| Stone | Deep Creek | | | | | | | | | | | | | | | | | | | | | | .12 | | | | | | | | | | 0.12 |
| Weston | Bear | | | | | | | | | | | | | | | | | | | | | | | .29 | | | | .20 | .38 | | | | 0.87 |
| *Utah.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alpine | Great Salt Lake | | | | | | | | | | | | | | | | | | | | | | | .40 | | | .28 | | .37 | | | | 1.05 |
| Annabella | Sevier Lake | | | | | | | | | | | | | | | .09 | | | | | | | | | | | | .04 | | | | | 0.13 |
| Beaver | do | | | | | | | | | | | | | | | .37 | | | .04 | T. | | | | .05 | | .62 | | | .30 | | | | 1.38 |
| Black Rock | do | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | .20 | .10 | | | | 0.50 |
| Castle Rock | Great Salt Lake | | | | | | | | | .05 | | | | | | | | | | | | | | .08 | | | .10 | .08 | T. | | | | 0.31 |
| Cedar City | Desert | | | | | | | | | | | | | | | .07 | | | | | | | | .05 | | | .28 | | .04 | .08 | | | 0.52 |
| Corinne | Great Salt Lake | | | | | | | | | | | | | | | | | | | | T. | | .60 | T. | | | | | | | | | 0.60 |
| Deseret | Sevier Lake | | | | | | | | | | | | | | | | | | | | | | | | | | .25 | | .35 | | | | 0.60 |
| Enterprise | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Farmington | Great Salt Lake | | | | | | | | | | | | | | | | | | | | | | | .25 | | | T. | | .58 | | | | 0.83 |
| Fillmore | Sevier Lake | | | | | | | | | | | | | | | | | | | | | | | .04 | | | .43 | | .41 | | | | 0.88 |
| Friese Summit | Great Salt Lake | | | | | | | | | .51 | | | | | | | | | | | .33 | | | | | | | .43 | | | | | 1.27 |
| Frisco | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | .28 | | .15 | | | | 0.43 |
| Garrison | do | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | | | | | T. |
| Government Creek | do | | | | | | | | | T. | | | | | | T. | | | | | | * | .38 | | | | T. | * | .43 | | | | 0.81 |
| Grantsville | do | | | | | | | | | | | | | | | | | | | | | | .12 | | | | | | .18 | | | | 0.30 |
| Heber | do | | | | | | | | | .10 | | | | | | | | | | | T. | | | .10 | | | .30 | .25 | .20 | | | | 0.95 |
| Henefer | Great Salt Lake | .60 | | | | | | | | .07 | | | | | | | | | T. | | T. | T. | | .30 | | | .45 | | .18 | | | | 1.60 |
| Ibapah (near) | Desert | | | | | | | | | | | | | | | | | | T. | | | .02 | | .03 | | | T. | T. | .15 | | | | 0.20 |
| Ibex | do | | | | | | | | | | | | | | | | | | | | | T. | | | | | T. | * | .17 | | | | 0.17 |
| International | Great Salt Lake | | | | | | | | .02 | | | | | | | T. | | | | | | | .42 | .02 | | | .05 | .37 | .05 | | | | 0.93 |
| Kanosh | Sevier Lake | | | | | | | | | | | | | | | | | | | | | | .12 | | | .32 | | .12 | | | | | 0.56 |
| Kelton | Great Salt Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | | T. |
| Levan | Sevier Lake | | | | | | | | | | | | | | | | | | | | .02 | | | .03 | | | .45 | | .23 | | | | 0.73 |
| Logan | Great Salt Lake | | | | | | | | | | | | | | | | | | | | T. | | .55 | | | | | .70 | | | | | 1.25 |
| Lucin | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Manti | Sevier Lake | | | | | | | | | | | | | | | | | | | | | | | .14 | | | .41 | | .10 | | | | 0.65 |
| Marion | Great Salt Lake | .03 | | | | | | | | T. | | | | | | | | | | | T. | | | * | .02 | | .32 | .04 | .30 | T. | | | 0.81 |
| Marysvale | Sevier Lake | | | | | | | | | | | | | | | .08 | | | T. | | .01 | | | | | | .17 | | .09 | .01 | | | 0.36 |
| Meadowville | Great Salt Lake | .05 | | | | | | | | T. | | | | | | | | | | | | | | | | | .34 | | .11 | .03 | | | 0.53 |
| Milford | Sevier Lake | | | | | | | | | | | | | | | | | | | | | | | | | .30 | | | .20 | | | | 0.50 |
| Millville | Great Salt Lake | .02 | | | | | | | | | | | | | | | | | | | .02 | | | .39 | .03 | | .11 | .01 | .48 | | | | 1.06 |
| Minersville | Sevier Lake | | | | | | | | | | | | | | | .05 | | | | | | | | .11 | | | .45 | | .23 | .04 | | | 0.88 |
| Modena | Desert | | | | | | | | | | | | | | T. | | | | | | | | .15 | | | .06 | .25 | .02 | .32 | | | | 0.80 |
| Morgan | Great Salt Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moroni | Sevier Lake | | | | | | | | | T. | | | | | T. | | | | T. | | T. | | T. | .04 | | | .34 | | .10 | T. | | | 0.48 |
| Mt. Nebo | Great Salt Lake | | | | | | | | | | | | | | | | | | | | T. | | | .03 | | | .16 | | .20 | | | | 0.39 |
| Mt. Pleasant | Sevier Lake | | | | | | | | | | | | | | | T. | | | | | | | .03 | | | | .05 | | .10 | | | | 0.18 |
| Nephi | Great Salt Lake | | | | | | | | | | | | | | | | | | | | | | | .05 | | | * | .76 | | | | | 0.81 |
| Oak City | Sevier Lake | | | | | | | | | | | | | | | | | | | | | | | | | | .63 | | .32 | | | | 0.95 |
| Ogden | Great Salt Lake | | | | | | | | | | | | | | | | | | | | | | | .60 | | | .06 | | .86 | | | | 1.52 |
| Panguitch Lake | Sevier Lake | | | | | | | | | | | | | | .20 | | | | | | T. | | .05 | | | .45 | .30 | T. | T. | | | | 1.00 |
| Park City | Great Salt Lake | | | | | | | | | .01 | | | | | | | | | | | .01 | | | | .02 | .01 | .04 | | | | | | 0.09 |
| Parowan | Desert | | | | | | | | | | | | | | | | | | | | | | | .05 | | | .20 | | .17 | | | | 0.42 |
| Payson | Great Salt Lake | | | | | | | | | T. | | | | | | | | | | | .06 | | | .13 | | | .50 | .05 | .50 | T. | | | 1.24 |
| Pinto | Desert | | | | | | | | | | | | | | | .10 | | | | | | | | .01 | | | .46 | | .27 | | | | 0.84 |
| Promontory | Great Salt Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | .10 | | | | 0.10 |
| Provo | do | | | | | | | | | T. | | | | | | | | | | | T. | | | .25 | | | .65 | | .27 | | | | 1.17 |
| Randolph | do | | | | | | | | | T. | | | | | | | | | | | | | | | .08 | .25 | .18 | | | .04 | | | 0.31 |
| Richfield | Sevier Lake | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | | | | | 0.20 |
| Saltair | Great Salt Lake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salt Lake City | do | T. | | | | | | | | T. | | | | | | | | | T. | | | | .44 | .16 | | | .27 | .05 | .66 | | | | 1.58 |
| Scipio | Desert | | | | | | | | | | | | | | | | | | T. | | | | | .19 | | 1.00 | | | .11 | | | | 1.30 |
| Silver City | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spanish Fork Canyon | Great Salt Lake | | | | | | | | | | | | | | | | | | | | | | | .18 | | | | .53 | .66 | .02 | | | 1.39 |
| Thistle | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooele | do | | | | | | | | | T. | | | | | | | | | | | | | | .36 | | | | | .60 | | | | 0.96 |
| Utah Lake Pump'g Sta. | do | .04 | | | | | | | | | | | | | | | | | | | | T. | | .51 | | * | .34 | | * | .33 | | | 1.22 |
| Woodruff | do | | | | | .02 | | | | | | | | | | | | | | | | | .01 | | | | * | .02 | | | | | 0.05 |
| *Oregon.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ana River | Interior Drainage | | | | | | | | | | | | | | | | | | | | .03 | | .09 | T. | | | | | | | | | 0.12 |
| Burns | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Burns Mill | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cecil's Ranch | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Christmas Lake | do | | | | | | | | | | | | | | | .01 | T. | | .06 | .32 | .03 | .01 | | | | | | | | | | | 0.43 |
| Diamond "H" Ranch | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paisley | do | | | | | | | | | | | | | | | | | | .05 | .11 | | | .27 | .23 | .01 | | | | | | | | 0.67 |
| Plush | do | | | | | | | | | | | | | | | | | | | .10 | .05 | T. | T. | .20 | | | | | | | | | 0.35 |
| "P" Ranch | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver Lake | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valley Falls | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *California.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Al Tahoe | Truckee | | | | | | | | | | | | | | .01 | | .01 | | | .35 | | | .12 | .52 | | T. | T. | T. | .16 | | | | 1.17 |
| Bijou | do | | | | | | | | | | | | | | | | | | | .32 | | | .02 | .26 | | .06 | | .12 | | | | | 0.78 |
| Boca | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bodie | East Walker | | | | | | .07 | | | | | | | | | | | | | | | | .04 | .01 | | | | | .20 | | | | 0.32 |
| Bridgeport | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brockway | Truckee | | | | | | | | | | | | | | | | | | | .29 | | | .15 | .18 | | | .10 | | | | | | 0.72 |
| Deer Park | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Donner Ice Camp | do | | | | | | | | | | | | | | | | | | * | * | 1.20 | | * | .80 | | | | | | | | | 2.00 |
| Fales' Hot Springs | West Walker | | | | | | | | | | | | | | | | | | | | | | | .27 | | | | .08 | | | | | 0.35 |
| Glen Alpine Springs | Truckee | | | | | | | | | | | | | | | | .02 | | * | 2.05 | 1.37 | | .24 | .89 | | .13 | .24 | .02 | | | | | 4.96 |
| Hobart Mills | do | | | | | | | | | | | | | | | | | | .01 | .40 | .65 | | .17 | .65 | | | .15 | .13 | | | | | 2.16 |
| Lundy | East Walker | | | | | | | | | | | | | | | | | | | | | | | .10 | | | | | | | | | | 0.10 |
| Markleeville | East Carson | | | | | | | | | | | | | | | | | | T. | .17 | .20 | | .10 | .52 | | | | .32 | | | | | 1.31 |
| McKinney | Truckee | | | | | | | | | | | | | | | | | | .70 | .40 | | | | 1.00 | | | | | | | | | 2.10 |
| Shields' Ranch | West Walker | | | | | | | | | | | | | | T. | T. | | | | T. | | | | .15 | | | | | | | | | 0.15 |
| Silver Creek | East Carson | | | | | | | | | | | | | | | | | | .10 | .17 | .21 | | .10 | .51 | | | | .31 | | | | | 1.40 |
| Tahoe | Truckee | | | | | | | | | | | | | | | | | | T. | 1.40 | | | | .85 | T. | T. | | .20 | | | | | 2.20 |
| Tallac | do | | | | | | | | | | | | | T. | | | | | | .38 | .19 | | | .48 | | .03 | | .04 | T. | | | | 1.12 |
| Truckee | Truckee | | | | | | | | | | | | | | | | | .02 | .02 | | .20 | | | | | | | | | | | | 0.24 |
| Woodfords | West Carson | | | | | | | | | | | | | | | | | | | | | | | .30 | | | | .10 | | | | | 0.40 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 10*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Nevada.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aurora | East Walker | | | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | T. |
| Austin | Reese | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battle Mountain | Humboldt | | | | | | | | | | | | | | T. | | | | .08 | | | | | T. | | T. | | | T. | | | 0.08 |
| Beowawe | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Buckskin | Walker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carlin | Humboldt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Carson Dam | Carson | | | | | | | | | | | | | | | | | | T. | | | | T. | T. | | | | | | | | T. |
| Cherry Creek | Humboldt | | | | | | | | | | | | | | | | | | | | | | .06 | T. | | | .01 | .02 | .02 | | | 0.11 |
| Clover Valley | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cobre | ...do | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | | | | T. |
| Columbia | Desert | | | | | | | | | | | | | | | | | | | | | | .29 | | | | | | | | | 0.29 |
| Dutton | Humboldt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elko | ...do | | | | | | | | | | | | | | | | | | | | | | | | | .06 | | T. | T. | | | 0.06 |
| Ely | ...do | | | | | | | | | | | | | | | .08 | | | | | | | | | | .05 | | T. | | | | 0.13 |
| Eureka | ...do | | | | | | | | | | | | | | .08 | | | | | | | | .25 | | | .20 | | .10 | .18 | | | 0.81 |
| Fallon | Carson | | | | | | | | | | | | | | T. | | | | T. | | .07 | | | .03 | | | T. | | T. | | | 0.10 |
| Fernley | Truckee | | | | | | | | | | | | | | | | | | .18 | T. | | | | T. | | T. | | T. | | | | 0.18 |
| Gardnerville | Carson | | | | | | | | | | | | | | | | | | | | | | | | .20 | | | | | | | 0.20 |
| Geyser | Humboldt | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | | | | T. |
| Glenbrook | Truckee | | | | | | | | | | | | | | | | | | | .10 | | | .25 | | | | | | | | | 0.35 |
| Golconda | Humboldt | | | | | | | | | | | | | | | | | | | | | | | | | | | .20 | | | | 0.20 |
| Halleck | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Jean | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Leetville | Carson | | | | | | | | | | | | | | | | | | .15 | | | | | | | | | | | | | 0.15 |
| Lewers Ranch | Truckee | | | | | | | | | | | | | * | .05 | | | | | | | | * | .10 | | T. | | | .35 | | | 0.50 |
| Lovelock | Humboldt | | | | | | | | | | | | | | | | | | | | | | | .01 | | | .01 | | | | | 0.02 |
| McAfees Ranch | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Millett | Reese | | | | | | | | | | | | | | .14 | T. | | | | | | | .05 | | | .10 | | T. | .05 | | | 0.34 |
| Mina | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Mount Rose Ranch | Truckee | | | | | | | | | | | | | | .40 | | | | T. | T. | T. | | T. | .20 | | .40 | T. | .20 | | | | 1.20 |
| North Fork | Humboldt | | | | | | | | | | | | | | | | | | .40 | T. | | | | .03 | | .10 | .02 | | .03 | | | 0.58 |
| Palmetto | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paradise Valley | Little Humboldt | | | | | | | | | | | | | | | | | | | | | | .10 | | | .15 | | | | | | 0.25 |
| Potts | Reese | | | | | | | | | | | | | | .05 | | | T. | T. | | | | T. | | | T. | T. | T. | T. | | | 0.05 |
| Quinn River Ranch | Humboldt | | | | | | | | | | | | | | | | | | | .10 | .22 | | | .17 | | | | .14 | .03 | | | 0.66 |
| Reno | Truckee | | | | | | | | | | | | | T. | .03 | | | | | | T. | | T. | .04 | | .01 | | .14 | | | | 0.22 |
| Rose Creek | Humboldt | | | | | | | | | | | | T. | | .01 | | | | T. | .11 | | * | .18 | | | * | * | .06 | T. | | | 0.36 |
| Smith | West Walker | | | | | | | | | | | | T. | T. | | | | | T. | | | | | .05 | | .28 | T. | | | | | | 0.33 |
| Spooners Ranch | Truckee | | | | | | | | | | | | | | | | | | T. | .21 | | | | .30 | | .07 | | .10 | | | | 0.68 |
| Soda Lake | Carson | | | | | | | | | | | | | | | | | | .03 | T. | | | | | .01 | | | | | | | 0.04 |
| Sweetwater | East Walker | | | | | | | | | | | | | | | | | | | | | | | .20 | | | | | T. | | | 0.20 |
| Tecoma | Humboldt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Tonopah | Desert | | | | | | | | | | | | | | | | | | | | | | .16 | T. | | | | .04 | | | | 0.20 |
| Wabuska | Walker | | | | | | | | | | | | | | | | | | T. | | | | | | | T. | | | | | | T. |
| Wells | Humboldt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Willow Point | Little Humboldt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Winnemucca | Humboldt | | | | | | | | | | | | | | T. | .02 | | | T. | .07 | | | T. | .08 | T. | | T. | .06 | .01 | | | 0.24 |

TABLE 3.—*Maximum and minimum temperatures at selected stations, March, 1910. District No. 10, Great Basin.*

| Date. | Wyoming: Border. | | Wyoming: Evanston. | | Weston, Idaho. | | Utah. Corinne. | | Deseret. | | Government Creek. | | Marysvale. | | Modena. | | Ogden. | | Parowan. | | Provo. | | Salt Lake City. | | Burns, Oreg. | | Elko, Nev. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 46 | 31 | 40 | 28 | 46 | 35 | 50 | 36 | 66 | 25 | 58 | 34 | 65 | 24 | 65 | 29 | 51 | 39 | 65 | 29 | 56 | 34 | 60 | 42 | ..... | ..... | 56 | 27 |
| 2 | 52 | 32 | 50 | 28 | 53 | 30 | 57 | 27 | 68 | 26 | 64 | 34 | 67 | 25 | 66 | 28 | 51 | 34 | 66 | 28 | 65 | 31 | 63 | 39 | ..... | ..... | 58 | 29 |
| 3 | 45 | 20 | 52 | 26 | 51 | 28 | 57 | 28 | 70 | 27 | 64 | 35 | 68 | 25 | 69 | 29 | 54 | 35 | 67 | 29 | 70 | 34 | 64 | 40 | ..... | ..... | 56 | 36 |
| 4 | 46 | 13 | 53 | 26 | 54 | 29 | 62 | 31 | 74 | 29 | 69 | 40 | 70 | 26 | 70 | 31 | 57 | 36 | 67 | 30 | 73 | 35 | 65 | 42 | ..... | ..... | 60 | 28 |
| 5 | 49 | 17 | 50 | 30 | 57 | 30 | 67 | 32 | 72 | 50 | 63 | 29 | 71 | 32 | 71 | 33 | 57 | 39 | 69 | 32 | 63 | 44 | 61 | 42 | ..... | ..... | 62 | 28 |
| 6 | 43 | 10 | 52 | 21 | 53 | 25 | 64 | 28 | 67 | 25 | 62 | 28 | 71 | 24 | 69 | 27 | 53 | 30 | 71 | 33 | 65 | 30 | 59 | 35 | ..... | ..... | 61 | 25 |
| 7 | 44 | 15 | 52 | 26 | 56 | 30 | 66 | 34 | 71 | 27 | 63 | 30 | 70 | 29 | 69 | 31 | 57 | 34 | 71 | 34 | 69 | 35 | 59 | 39 | ..... | ..... | 62 | 27 |
| 8 | 42 | 28 | 46 | 27 | 52 | 27 | 65 | 32 | 64 | 30 | 61 | 28 | 63 | 26 | 64 | 35 | 53 | 34 | 72 | 35 | 59 | 35 | 54 | 37 | ..... | ..... | 60 | 36 |
| 9 | 39 | 11 | 40 | 28 | 48 | 32 | 64 | 28 | 58 | 27 | 60 | 26 | 50 | 25 | 57 | 32 | 49 | 32 | 56 | 33 | 54 | 30 | 48 | 37 | ..... | ..... | 58 | 23 |
| 10 | 44 | 16 | 45 | 17 | 50 | 30 | 57 | 27 | 57 | 18 | 61 | 22 | 56 | 18 | 57 | 21 | 49 | 30 | 60 | 28 | 57 | 26 | 51 | 32 | ..... | ..... | 61 | 28 |
| 11 | 47 | 17 | 51 | 20 | 55 | 24 | 60 | 26 | 63 | 18 | 56 | 25 | 64 | 17 | 61 | 20 | 54 | 41 | 64 | 22 | 61 | 27 | 55 | 33 | ..... | ..... | 58 | 25 |
| 12 | 47 | 17 | 55 | 24 | 60 | 25 | 65 | 29 | 68 | 19 | 63 | 28 | 66 | 20 | 65 | 23 | 58 | 35 | 73 | 23 | 67 | 30 | 60 | 36 | ..... | ..... | 62 | 27 |
| 13 | 51 | 17 | 57 | 25 | 65 | 26 | 63 | 30 | 69 | 25 | 63 | 32 | 67 | 23 | 64 | 31 | 63 | 35 | 66 | 20 | 70 | 34 | 63 | 39 | ..... | ..... | 68 | 28 |
| 14 | 49 | 19 | 58 | 26 | 65 | 26 | 67 | 32 | 69 | 28 | 60 | 30 | 64 | 25 | 62 | 32 | 64 | 38 | 70 | 23 | 65 | 36 | 65 | 41 | ..... | ..... | 62 | 26 |
| 15 | 51 | 21 | 58 | 28 | 66 | 29 | 68 | 38 | 64 | 32 | 64 | 32 | 66 | 27 | 60 | 30 | 62 | 42 | 77 | 28 | 67 | 38 | 60 | 44 | ..... | ..... | 52 | 24 |
| 16 | 55 | 22 | 56 | 26 | 65 | 29 | 71 | 34 | 68 | 28 | 67 | 34 | 65 | 24 | 64 | 26 | 64 | 41 | 82 | 32 | 68 | 35 | 64 | 42 | ..... | ..... | 62 | 29 |
| 17 | 59 | 24 | 58 | 29 | 67 | 30 | 70 | 35 | 72 | 30 | 67 | 38 | 71 | 26 | 67 | 30 | 67 | 44 | 68 | 33 | 73 | 38 | 68 | 44 | ..... | ..... | 66 | 34 |
| 18 | 63 | 27 | 63 | 30 | 71 | 36 | 69 | 30 | 73 | 31 | 70 | 41 | 71 | 28 | 68 | 34 | 72 | 47 | 67 | 34 | 73 | 41 | 71 | 48 | ..... | ..... | 78 | 30 |
| 19 | 65 | 28 | 65 | 33 | 71 | 35 | 75 | 35 | 72 | 39 | 70 | 43 | 70 | 28 | 66 | 34 | 75 | 49 | 65 | 34 | 76 | 38 | 73 | 50 | ..... | ..... | 72 | 23 |
| 20 | 66 | 29 | 65 | 33 | 72 | 43 | 71 | 36 | 73 | 42 | 69 | 49 | 72 | 37 | 63 | 35 | 75 | 49 | 71 | 33 | 77 | 40 | 74 | 53 | ..... | ..... | 62 | 34 |
| 21 | 67 | 33 | 63 | 35 | 73 | 41 | 73 | 30 | 76 | 39 | 72 | 40 | 71 | 37 | 69 | 32 | 76 | 52 | 71 | 33 | 77 | 45 | 74 | 54 | ..... | ..... | 72 | 38 |
| 22 | 61 | 41 | 62 | 36 | 72 | 45 | 76 | 47 | 70 | 45 | 64 | 39 | 69 | 45 | 58 | 31 | 72 | 58 | 66 | 46 | 76 | 57 | 71 | 35 | ..... | ..... | 58 | 34 |
| 23 | 53 | 22 | 50 | 28 | 58 | 32 | 57 | 34 | 61 | 33 | 59 | 29 | 58 | 23 | 51 | 24 | 58 | 33 | 60 | 35 | 62 | 35 | 54 | 31 | ..... | ..... | 54 | 28 |
| 24 | 48 | 26 | 49 | 24 | 47 | 31 | 49 | 38 | 61 | 25 | 52 | 28 | 61 | 20 | 56 | 23 | 50 | 37 | 58 | 26 | 64 | 35 | 50 | 38 | ..... | ..... | 50 | 22 |
| 25 | 55 | 26 | 54 | 28 | 58 | 30 | 50 | 33 | 60 | 27 | 55 | 28 | 57 | 30 | 52 | 27 | 56 | 31 | 56 | 34 | 62 | 33 | 55 | 38 | ..... | ..... | 55 | 25 |
| 26 | 49 | 33 | 49 | 32 | 50 | 39 | 62 | 35 | 55 | 38 | 52 | 36 | 56 | 32 | 44 | 28 | 54 | 42 | 54 | 30 | 53 | 35 | 54 | 38 | ..... | ..... | 50 | 26 |
| 27 | 49 | 22 | 48 | 37 | 52 | 30 | 60 | 25 | 52 | 32 | 51 | 33 | 53 | 29 | 46 | 26 | 55 | 40 | 52 | 28 | 56 | 34 | 55 | 40 | ..... | ..... | 42 | 28 |
| 28 | 45 | 32 | 43 | 29 | 48 | 32 | 61 | 28 | 40 | 33 | 46 | 31 | 46 | 30 | 40 | 26 | 52 | 32 | 50 | 26 | 51 | 31 | 47 | 35 | ..... | ..... | 45 | 32 |
| 29 | 36 | 16 | 34 | 18 | 45 | 28 | 56 | 30 | 45 | 30 | 41 | 25 | 40 | 27 | 46 | 24 | 45 | 30 | 55 | 25 | 45 | 29 | 44 | 32 | ..... | ..... | 52 | 26 |
| 30 | 50 | 15 | 54 | 17 | 53 | 20 | 64 | 25 | 56 | 21 | 63 | 22 | 54 | 22 | 54 | 24 | 52 | 30 | 60 | 24 | 59 | 25 | 53 | 30 | ..... | ..... | 64 | 28 |
| 31 | 56 | 21 | 55 | 24 | 61 | 25 | 67 | 28 | 65 | 24 | 63 | 32 | 67 | 17 | 63 | 25 | 62 | 35 | 64 | 23 | 68 | 31 | 62 | 36 | ..... | ..... | 64 | 22 |
| Mns | 50.9 | 22.6 | 52.5 | 26.7 | 57.9 | 30.4 | 63.3 | 31.6 | 64.5 | 29.8 | 61.0 | 32.3 | 63.2 | 26.2 | 60.5 | 28.4 | 58.6 | 38.2 | 64.9 | 29.8 | 64.5 | 34.9 | 59.9 | 39.4 | ..... | ..... | 59.4 | 28.3 |

| Date. | Nevada. Ely. | | Eureka. | | Fallon. | | Jean. | | Lovelock. | | Millett. | | Mina. | | Quinn River Ranch. | | Reno. | | Tecoma. | | Tonopah. | | Winnemucca. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 46 | 24 | 57 | 32 | 68 | 38 | 85 | 35 | 76 | 40 | 61 | 35 | 75 | 28 | ..... | ..... | 68 | 36 | 56 | 10 | 59 | 40 | 60 | 39 |
| 2 | 50 | 26 | 60 | 31 | 70 | 34 | 84 | 37 | 77 | 38 | 68 | 26 | 78 | 27 | ..... | ..... | 71 | 34 | 61 | 22 | 63 | 45 | 67 | 32 |
| 3 | 52 | 26 | 64 | 32 | 73 | 32 | 83 | 37 | 72 | 36 | 70 | 24 | 75 | 30 | ..... | ..... | 71 | 34 | 60 | 24 | 68 | 49 | 66 | 32 |
| 4 | 49 | 20 | 66 | 35 | 67 | 30 | ..... | ..... | 77 | 39 | 70 | 28 | 72 | 29 | ..... | ..... | 69 | 32 | 56 | 25 | 67 | 44 | 65 | 32 |
| 5 | 51 | 21 | 64 | 34 | 64 | 39 | 88 | 35 | 70 | 35 | 65 | 27 | 71 | 26 | 64 | 22 | 68 | 37 | 58 | 27 | 63 | 46 | 62 | 36 |
| 6 | 52 | 26 | 63 | 27 | 65 | 28 | ..... | ..... | 65 | 45 | 68 | 22 | 72 | 29 | 62 | 24 | 65 | 30 | 62 | 28 | 65 | 45 | 65 | 32 |
| 7 | 47 | 21 | 63 | 32 | 67 | 30 | 87 | 35 | 67 | 40 | 65 | 23 | 70 | 30 | 65 | 27 | 69 | 32 | 62 | 28 | 63 | 44 | 65 | 31 |
| 8 | 43 | 20 | 55 | 28 | 63 | 31 | 86 | 37 | 60 | 41 | 60 | 22 | 67 | 30 | 60 | 26 | 64 | 31 | 64 | 26 | 58 | 37 | 61 | 31 |
| 9 | 48 | 20 | 51 | 26 | 62 | 29 | 84 | 42 | 68 | 26 | 58 | 25 | 71 | 24 | ..... | ..... | 62 | 30 | 56 | 20 | 58 | 34 | 55 | 32 |
| 10 | 52 | 25 | 61 | 33 | 65 | 27 | 77 | 43 | 69 | 28 | 61 | 20 | 72 | 24 | ..... | ..... | 70 | 29 | 54 | 15 | 58 | 34 | 60 | 31 |
| 11 | 58 | 28 | 63 | 27 | 68 | 28 | 73 | 30 | 72 | 33 | 62 | 30 | 73 | 26 | ..... | ..... | 70 | 33 | 60 | 20 | 59 | 41 | 64 | 33 |
| 12 | 51 | 23 | 63 | 32 | 70 | 31 | 76 | 31 | 77 | 38 | 65 | 23 | 71 | 32 | 70 | 23 | 71 | 34 | 62 | 26 | 59 | 41 | 65 | 35 |
| 13 | 46 | 19 | 63 | 34 | 72 | 32 | ..... | ..... | 76 | 30 | 67 | 29 | 69 | 32 | 72 | 28 | 67 | 36 | 64 | 30 | 60 | 44 | 72 | 36 |
| 14 | 40 | 17 | 59 | 36 | 67 | 38 | 80 | 40 | 80 | 38 | 60 | 34 | 67 | 32 | 72 | 34 | 60 | 36 | 65 | 30 | 52 | 37 | 67 | 40 |
| 15 | 34 | 15 | 58 | 30 | 65 | 34 | 77 | 34 | 65 | 35 | 61 | 31 | 70 | 31 | 64 | 30 | 62 | 34 | 66 | 28 | 55 | 34 | 63 | 35 |
| 16 | 43 | 18 | 61 | 33 | 69 | 33 | 78 | 35 | 77 | 29 | 65 | 27 | 69 | 38 | 68 | 30 | 64 | 31 | 66 | 30 | 60 | 42 | 69 | 39 |
| 17 | 48 | 21 | 65 | 37 | 73 | 38 | 83 | 38 | 73 | 40 | 69 | 33 | 74 | 39 | 70 | 28 | 69 | 44 | 67 | 38 | 61 | 43 | 70 | 38 |
| 18 | 56 | 24 | 63 | 37 | 70 | 42 | 88 | 47 | 76 | 38 | 65 | 32 | 72 | 48 | 70 | 42 | 64 | 46 | 66 | 39 | 60 | 44 | 67 | 45 |
| 19 | 51 | 21 | 64 | 39 | 73 | 39 | 78 | 42 | 75 | 32 | 65 | 47 | 79 | 48 | 67 | 40 | 64 | 45 | 71 | 31 | 59 | 43 | 70 | 43 |
| 20 | 49 | 19 | 59 | 44 | 64 | 41 | ..... | ..... | 68 | 30 | 62 | 47 | 74 | 52 | 59 | 38 | 52 | 39 | 70 | 27 | 56 | 42 | 64 | 43 |
| 21 | 46 | 21 | 61 | 35 | 69 | 37 | 87 | 42 | 73 | 38 | 62 | 46 | 72 | 21 | 64 | 35 | 60 | 36 | 72 | 26 | 56 | 41 | 68 | 39 |
| 22 | 50 | 26 | 53 | 29 | 62 | 38 | 82 | 45 | 70 | 35 | 58 | 33 | 56 | 29 | 53 | 37 | 50 | 34 | 67 | 22 | 44 | 30 | 56 | 39 |
| 23 | 58 | 24 | 43 | 25 | 50 | 33 | 66 | 35 | 65 | 41 | 49 | 25 | 59 | 36 | 44 | 32 | 42 | 30 | 64 | 22 | 46 | 28 | 44 | 31 |
| 24 | 51 | 26 | 50 | 27 | 52 | 26 | 72 | 30 | 55 | 29 | 54 | 24 | 60 | 24 | 49 | 23 | 45 | 26 | 54 | 28 | 51 | 33 | 48 | 29 |
| 25 | 43 | 20 | 50 | 27 | 56 | 33 | 70 | 32 | 60 | 35 | 51 | 24 | 58 | 26 | 53 | 32 | 50 | 24 | 54 | 32 | 48 | 33 | 53 | 34 |
| 26 | 48 | 22 | 52 | 28 | 56 | 30 | 60 | 34 | 55 | 38 | 53 | 23 | 59 | 32 | 51 | 29 | 50 | 29 | 51 | 31 | 46 | 30 | 51 | 31 |
| 27 | 57 | 30 | 43 | 29 | 52 | 38 | ..... | ..... | 50 | 30 | 48 | 33 | 57 | 32 | 49 | 35 | 50 | 32 | 52 | 23 | 37 | 29 | 49 | 34 |
| 28 | 60 | 29 | 41 | 24 | 58 | 32 | 60 | 34 | 59 | 32 | 50 | 25 | 60 | 30 | 48 | 33 | 55 | 33 | 50 | 15 | 47 | 27 | 52 | 35 |
| 29 | 53 | 26 | 44 | 22 | 57 | 25 | 74 | 33 | 58 | 30 | 55 | 29 | 70 | 26 | 54 | 29 | 61 | 28 | 52 | 26 | 52 | 28 | 54 | 28 |
| 30 | 57 | 30 | 58 | 22 | 65 | 24 | 67 | 42 | 67 | 26 | 63 | 17 | 75 | 25 | 64 | 25 | 69 | 27 | 52 | 28 | 58 | 32 | 65 | 28 |
| 31 | 51 | 22 | 67 | 28 | 71 | 28 | 80 | 33 | 66 | 31 | 69 | 20 | 74 | 31 | ..... | ..... | 68 | 33 | 50 | 26 | 64 | 43 | 67 | 30 |
| Means | 49.7 | 22.9 | 57.5 | 30.5 | 64.6 | 32.5 | 77.9° | 36.8° | 68.3 | 34.7 | 61.3 | 28.2 | 69.1 | 31.2 | ..... | ..... | 61.9 | 33.4 | 60.1 | 25.9 | 56.5 | 38.2 | 61.4 | 34.6 |

# Climatological Data for March, 1910.

## DISTRICT No. 11, CALIFORNIA.

Prof. ALEXANDER G. McADIE, District Editor.

### GENERAL SUMMARY.

The month of March was, in this district, as elsewhere throughout the United States, a warm month. While there were no records broken the area under discussion was plainly under the influence of the same general conditions which caused the continued high temperature and deficient precipitation in so many portions of the United States. It has been stated in official publications[1] of the Weather Bureau that—

> Probably not within the recorded history of the country has there been a month of the same name (March) with such a long, unbroken series of successive days with the temperature above the normal and at the same time such a persistent absence of precipitation.

Referring to a record extending over a period of 60 years for San Francisco it appears that the most noticeable feature of the month was a period of 13 days of dry, warm weather, during the first half of the month. The latter half of the month was of an entirely different character. Not in many years has a similar condition existed. In the year 1851 there were 17 consecutive days without rain, and in the year 1861 there was no rain from the 1st of the month until the 23d. There has never been a rainless March recorded. The type of March most opposed to the current month was in 1907, when there were but 5 consecutive days without rain; these occurring during the last decade.

It may be remarked in passing that from the forecaster's point of view the month was not a difficult one. There were no unusual or unexpected storm developments.

The average total precipitation for the district based upon the records of 189 stations was 3.22 inches, or 0.75 inch below the normal. The mean temperature determined from the records of 190 stations was 54.7° or 3.5° above the normal. With the exception of March, 1908, the rainfall was the smallest recorded for the State for a period of 6 years. For the sake of comparison the following table is given:

| | Inches. |
|---|---|
| 1904 | 8.52 |
| 1905 | 5.42 |
| 1906 | 9.19 |
| 1907 | 10.67 |
| 1908 | 1.49 |
| 1909 | 3.56 |
| 1910 | 3.22 |

It should be noted that the decrease in rainfall was most marked in the mountain sections and foothills and where the rain is ordinarily heaviest. For example, in the Sierras there was a deficiency of from 40 to 60 per cent. At elevations of 5,000 feet and over the snow covering diminished rapidly between the 1st and the 15th of the month and was probably of less depth than for many years. Unfortunately there are no records at heights above 8,000 feet.

The precipitation was above the normal along the coast, from Point Conception to Cape Mendocino. The usual condition is that when rains are heavy and frequent along the coast south of Cape Mendocino there is an extension of the rain area south of the Santa Barbara Channel. This, however, was not the case this year. While rain fell the amount was less than might reasonably have been expected.

The temperature, as stated above, was much above the normal. Not since 1905 has there been so warm a March. The mean temperatures for the State are as follows:

[1] National Monthly Weather Bulletin.

| | |
|---|---|
| 1904 | 51.1° |
| 1905 | 54.7° |
| 1906 | 50.8° |
| 1907 | 49.0° |
| 1908 | 51.8° |
| 1909 | 48.5° |
| 1910 | 54.7° |

The first decade of the month was a succession of pleasant, moderately warm days. The third decade and the last half of the second decade were cloudy with neither high nor low temperatures. There were no severe cold spells during the month and comparatively few frosts. There was much more than the usual duration of sunshine. Along the coast there was less than the usual amount of fog. There was some tule fog in the bay sections during the early morning hours, interfering slightly with ferry service. The general flow of the surface air during the first half of the month was from the west or north. During the latter half of the month the prevailing direction was southwest.

### TEMPERATURE.

The highest temperature reported was 102° at San Jacinto. The lowest temperature was 25° at Macdoel. At Brawley, on 6 dates during the first 8 days the maximum temperature was above 90°, reaching 95° on 3 occasions. On the other hand, on only 5 dates did the minimum temperature fail to reach 55°. In the Great Valley temperatures throughout the month were moderate. Not once did the maximum temperature exceed 80° in the Sacramento Valley, while in the San Joaquin there were only 4 dates when this temperature was passed. From an agricultural standpoint, temperatures throughout the State were most favorable for the growth of cereals and the blossoming of fruit trees.

### PRECIPITATION.

The greatest 24-hour rainfall was 3.60 inches, at Boulder Creek, on the 22d. At many stations on the 20th, 21st, and the 22d an inch of rain fell during each day of the period. The greatest monthly rainfall was 10.88 inches at Los Burros mines. No rain fell at 3 stations.

### SNOWFALL.

There was a steady decrease in the depth of the snowfall during the first 20 days. Not in many years has there been so light a covering at the middle of March. Although moderately heavy snow fell during the last 2 weeks of March, still at the close of the month there was less than one-half the normal amount of snow on the ground. The snow did not pack well and the water supply is somewhat uncertain. At many stations the total snowfall during the month of March was only about 30 per cent of the fall during March, 1909.

### SACRAMENTO AND SAN JOAQUIN WATERSHEDS, MARCH, 1910.

*Sacramento watershed.*—The gage readings averaged nearly 1 foot higher than for the corresponding month of 1909. Owing to the rapidly melting snows in the higher altitudes the run-off of the small streams that drain the Sierras was much greater than usual during the month of March, and resulted in keeping the Sacramento River above the normal stage even during the first half of the month, which was practically rainless. General rains from the 19th to 22d, inclusive, throughout the watershed caused substantial rises during this period from Red Bluff to the mouth of the Feather, on the Sacramento, and in the Yuba River above Marysville, but there were no threatening stages reported from any point in the valley.

From 20 to 25 inches of snow fell in the greater elevations of the mountains during the first part of the last decade, but, joined with the old snow, already soggy and honeycombed, the total amount rapidly reduced, and at the close of the month there was less on the ground than is usual during the month in question. This was especially so in the Feather-Yuba headwaters, and in all but the extreme elevations of the American River district.

At the close of the month there was considerably less water in the flood basins of the Sacramento than usual.

There appears to be a marked shortage in the available water supply, and conditions seem to indicate that all streams in the Sacramento watershed will be abnormally low during the coming summer.

*San Joaquin watershed.*—The rivers of the San Joaquin watershed were uniformly above the stage usually recorded during the month of March, having been the highest of any March since that of 1907, when floods were general. Rapid rises were reported from most of the tributaries of the San Joaquin River on the 23d, due to heavy rains that were general over the entire watershed from the 20th to 23d, and, as a result, the San Joaquin River itself below Lathrop, maintained a reasonably high stage during the last 10 days of the month. There were no damaging freshets or overflows during the month.

The visible water supply for the San Joaquin watershed seems much below the normal for the month, and from all reports it is safe to state that there will be a shortage of water during the months of August and September.—*N. R. Taylor.*

Doctor Manson reports that the average daily discharge at Lake Eleanor in second-feet has been as follows: December, 358; January, 288; February, 174; March, 494.

Mr. W. W. Schlett, of Orland, Cal., reports:

The status of the work on the East Park Dam will not permit the storage of any water during this season, consequently the lands of the Orland Project will be irrigated as much as possible from the natural flow of Stony Creek.

Mr. A. H. Bell, of the Weather Bureau at Eureka, reports that on March 18, 1910—

Quite a heavy earthquake shock occurred at 4:11 p. m. The vibrations were from southeast to northwest and continued without cessation for about 49 seconds. This was probably the longest earthquake shock ever felt in this city, and while no damage was done, its unusual length frightened many people. So far as can be learned the shock was felt throughout the county east of the foothills, more distinctly in the south than in the north. Barometer, 29.83; temperature, 53°; cloudy; wind, southwest, 11 miles per hour.

The operator at Laytonville says that the shock was felt at Willitts, but advices from San Francisco are to the effect that the temblor did not reach that far south.

### THE SAN FRANCISCO EARTHQUAKE OF APRIL 18, 1906.

Prof. A. C. Lawson has submitted to the Seismological Society of America the following note:

The most important fact brought to light by the investigation of the California earthquake of April 18, 1906, is the condition of stress which existed in the earth's crust antecedent to the rupture which produced the shock. The stress seems to have been effective as a slow tortional creep of the coastal portion of the Middle Coast Ranges toward the northwest. It was relieved by a fault rupture along the San Andreas Rift at the time of the earthquake, the fault-trace being certainly 190 miles and probably 270 miles in length. The relief was effected by a forward or northwestly movement of the portion of the earth's crust lying to the southwest of the fault and a resilience, or backward movement, to the southeast of the portion lying to the northeast of the fault, the maximum horizontal relative displacement being 21 feet. The fact that similar displacements have repeatedly occurred along the San Andreas Rift in time past is warrant for the belief that the stress operative in the earth's crust up to April 18, 1906, was only temporarily relieved by the fault of that date, that the stress is a secular condition of the region, and that the creep of the earth's crust which it induced will be renewed and will accumulate until it is again relieved at some future time by a rupture similar to that which occurred in 1906.

In view of this conclusion it is a matter of the utmost importance to geological science that the phenomena which such creep presents should be most carefully studied. Such a study will doubtless extend through decades and generations owing to the slowness of the movement, and we can scarcely hope in our time to fully understand it. We may, however, attack the problem in the hope and reasonable expectation of arriving at results which will be of service to humanity. The first step toward this end is the determination of the distribution of the stress as manifested by the slow creep of the region, and the measurement of its amount. This, in the opinion of your committee, may be best accomplished by the establishment of a series of monuments extending out in a direction approximately normal to the San Andreas Rift at suitable localities, and determining their relative positions by careful survey from time to time. Each line of monuments should extend out, where possible, for at least 20 miles on either side of the rift and be composed of stable concrete piers spaced not more than 2 miles apart. In the opinion of the committee there should be at least 3 lines of monuments, one to be located near the head of Tomales Bay, one near the south end of the Bay of San Francisco, and one crossing the rift where it traverses the south side of the Mojave Desert.

The cost of installing these monuments and establishing their positions in the first instance would be about $5,000. Your committee recommends that the society make an effort to secure the money necessary for this purpose, believing that no more important or more permanent contribution could be made at the present time to that branch of the science of the earth for which the society stands.

TABLE 1.—*Climatological data for March, 1910. District No. 11, California.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | |
| *Oregon.* | | | | | | | | | | | | | | | | | | | |
| Klamath Agency | Klamath | 4,169 | 2 | 43.6 | ..... | 69 | 11† | 22 | 26† | 43 | 0.00 | ..... | 0.00 | 0.0 | 0 | 22 | 2 | 6 | s. | H. J. Wilson. |
| Klamath Falls | ...do | 4,250 | 15 | 43.7 | + 4.2 | 68 | 11† | 22 | 29 | 42 | 0.53 | − 1.07 | 0.29 | 0.0 | 6 | 13 | 17 | 1 | nw. | W. H. Heileman. |
| Lakeview | Lake | 4,800 | 7 | 42.4 | + 5.3 | 71 | 14 | 19 | 25† | 42 | 0.00 | − 2.07 | 0.00 | 0.0 | 0 | 20 | 7 | 4 | s. | Geo. L. Wharton, jr. |
| Merrill | Klamath | 4,070 | 4 | 42.2 | ..... | 70 | 12 | 30 | 29 | 43 | 0.07 | ..... | 0.05 | 0.5 | 2 | 17 | 9 | 5 | ..... | D. H. Ward. |
| Yonna | ...do | ..... | 3 | 43.6 | ..... | 76 | 14 | 17 | 6 | 40 | 0.58 | ..... | 0.34 | 1.5 | 4 | 3 | 27 | 1 | s. | Jacob Rueck. |
| *California.* | | | | | | | | | | | | | | | | | | | | |
| Alameda | Alameda | ..... | 1 | 55.4 | ..... | 80 | 2 | 40 | 24 | .... | 2.00 | ..... | 0.50 | 0.0 | 9 | 9 | 6 | 16 | s. | Chas. E. Sears. |
| Alturas | Modoc | 4,460 | 6 | 44.9 | ..... | 72 | 11† | 19 | 29 | 48 | 0.43 | ..... | 0.22 | 3.0 | 7 | 13 | 13 | 5 | sw. | Prof. C. B. Towle. |
| Anderson (near) | Shasta | 550 | 1 | 57.0 | ..... | 80 | 10† | 33 | 24 | 34 | 3.89 | ..... | 1.19 | 0.0 | 8 | 21 | 5 | 5 | s. | C. S. Richardson. |
| Angiola | Tulare | 208 | 10 | 56.6 | + 1.6 | 87 | 12 | 35 | 14† | 50 | 1.45 | + 0.21 | 0.47 | 0.0 | 4 | 21 | 3 | 7 | s. | Santa Fe Co. |
| Antioch | Contra Costa | 46 | 31 | 59.2 | + 4.8 | 71 | 2† | 41 | 4 | .... | 1.41 | − 0.56 | 0.42 | 0.0 | 7 | 21 | 0 | 10 | ..... | Southern Pacific Co. |
| Aptos | Santa Cruz | 102 | 25 | 53.5 | + 0.2 | 69 | 31 | 40 | 24 | .... | 4.38 | + 0.60 | 0.84 | 0.0 | 12 | 8 | 8 | 15 | w. | Do. |
| Arrowhead Springs | San Bernardino | 2,000 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | G. I. Royce. |
| Auburn | Placer | 1,360 | 39 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Southern Pacific Co. |
| Avalon | Los Angeles | ..... | ..... | 57.1 | ..... | 83 | 31 | 46 | 27 | 28 | 1.64 | ..... | 0.80 | 0.0 | 6 | 11 | 14 | 6 | w. | W. N. Vilas. |
| Azusa | ...do | 540 | 8 | 60.4 | ..... | 98 | 3 | 38 | 11 | 51 | 2.60 | − 1.64 | 1.08 | 0.0 | 6 | 21 | 4 | 6 | ..... | A. P. Griffith. |
| Bagdad | San Bernardino | 784 | 7 | 70.6 | ..... | 90 | 3† | 46 | 27 | 32 | 0.00 | ..... | 0.00 | 0.0 | 0 | ..... | ..... | ..... | ..... | Santa Fe Co. |
| Bakersfield | Kern | 404 | 21 | 62.8 | + 4.9 | 88 | 12 | 38 | 25 | 37 | 1.20 | + 0.27 | 0.39 | 0.0 | 5 | ..... | ..... | ..... | ..... | Do. |
| Barstow | San Bernardino | 2,105 | 7 | 58.4 | ..... | 88 | 4 | 34 | 10† | 43 | 0.30 | ..... | 0.28 | 0.0 | 2 | 21 | 0 | 10 | w. | E. L. White. |
| Berkeley | Alameda | 317 | 23 | 53.8 | + 2.1 | 73 | 30 | 41 | 24 | 27 | 3.82 | − 0.44 | 0.85 | 0.0 | 8 | 9 | 8 | 14 | se. | State University |
| Biggs | Butte | 98 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Southern Pacific Co. |
| Bishop | Inyo | 4,450 | 15 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | W. A. Chalfant. |
| Blocksburg | Humboldt | 1,700 | 4 | 52.0 | ..... | 78 | 10 | 30 | 24 | 33 | 4.24 | ..... | 0.71 | 0.0 | 11 | 6 | 10 | 15 | se. | Victor Hope. |
| Blue Canyon | Placer | 4,695 | 11 | 48.0 | + 8.4 | 68 | 14 | 24 | 25 | 30 | 5.88 | − 9.34 | 1.70 | 20.0 | 6 | 19 | 1 | 11 | ..... | Southern Pacific Co. |
| Blythe | Riverside | ..... | 1 | 65.2 | ..... | 96 | 5 | 38 | 23† | 51 | 0.02 | ..... | 0.02 | 0.0 | 1 | 26 | 3 | 2 | ..... | H. V. Blenkiron. |
| Branscomb | Mendocino | 2,000 | 10 | 50.1 | ..... | 85 | 9 | 25 | 24 | 52 | 4.49 | − 8.11 | 0.99 | 0.0 | 10 | 18 | 3 | 10 | n. | A. J. Haun. |
| Brawley | Imperial | − 105 | 1 | 66.4 | ..... | 95 | 3 | 40 | 29 | 46 | 0.06 | ..... | 0.06 | 0.0 | 1 | 19 | 11 | 1 | w. | U. S. Weather Bureau. |
| Brush Creek | Butte | 2,140 | 6 | 49.4 | ..... | 76 | 9† | 30 | 25 | 42 | 5.91 | ..... | 1.67 | 0.0 | 10 | 16 | 8 | 7 | s. | Cal. Gas & Electric Co |
| Calexico | Imperial | 0 | 5 | 68.0 | ..... | 94 | 3† | 44 | 27† | 40 | 0.04 | ..... | 0.04 | 0.0 | 1 | 26 | 2 | 3 | nw. | J. E. Peck. |
| Caliente | Kern | 1,290 | 34 | 64.0 | + 8.0 | 83 | 10 | 44 | 28 | .... | 2.33 | + 0.45 | 0.75 | 0.0 | 5 | 22 | 0 | 9 | ..... | Southern Pacific Co. |
| Calistoga | Napa | 363 | 38 | 57.0 | + 3.5 | 85 | 8† | 40 | 25† | .... | 5.01 | − 0.03 | 1.48 | 0.0 | 7 | 15 | 0 | 16 | w. | Do. |
| Campbell | Santa Clara | 217 | 13 | 53.8 | + 2.7 | 75 | 2† | 35 | 8† | 39 | 2.67 | − 0.92 | 0.53 | 0.0 | 11 | 15 | 5 | 11 | nw. | F. M. Righter. |
| Camptonville (near) | Yuba | 3,500 | 3 | 53.0 | ..... | 82 | 10 | 32 | 23† | 38 | 7.65 | ..... | 2.51 | 0.0 | 12 | 16 | 0 | 16 | ..... | S. B. Johnson. |
| Cedarville | Modoc | 4,675 | 16 | 45.7 | + 8.4 | 70 | 13† | 24 | 24 | 39 | 0.78 | − 0.70 | 0.46 | 3.0 | 4 | 24 | 7 | 0 | sw. | T. H. Johnstone. |
| Chico | Butte | 189 | 40 | 57.0 | + 1.4 | 80 | 10 | 34 | 24† | 41 | 3.62 | + 0.92 | 1.03 | 0.0 | 8 | 19 | 3 | 9 | n. | Butte County R. R. Co. |
| China Flat | Humboldt | 600 | 1 | 56.7 | ..... | 83 | 31 | 36 | 6 | 43 | 1.49 | ..... | 0.65 | 0.0 | 8 | 9 | 16 | 6 | se. | O. I. Westerburg. |
| Chino | San Bernardino | 714 | 18 | 56.1 | + 0.5 | 88 | 2 | 40 | 4† | .... | 2.59 | − 0.73 | 1.00 | 0.0 | 7 | 9 | 1 | 21 | se. | Southern Pacific Co. |
| Cisco | Placer | 5,939 | 39 | 40.6 | + 7.2 | 52 | 2† | 21 | 28 | .... | 4.20 | − 3.79 | 1.80 | 42.0 | 7 | 21 | 0 | 10 | ..... | Do. |
| Claremont | Los Angeles | 1,200 | 18 | 58.7 | + 5.7 | 90 | 1† | 38 | 7 | 40 | 2.57 | − 0.93 | 1.21 | 0.0 | 11 | 15 | 11 | 5 | w. | F. P. Brackett. |
| Cloverdale | Sonoma | 340 | 8 | 55.8 | ..... | 83 | 8 | 35 | 24 | 43 | 6.70 | ..... | 1.60 | 0.0 | 9 | 18 | 7 | 6 | n. | Lloyd Browne. |
| Colfax | Placer | 2,421 | 39 | 51.4 | + 2.3 | 77 | 11 | 30 | 25† | 31 | 6.61 | − 0.65 | 2.50 | 0.0 | 6 | 16 | 0 | 15 | s. | Southern Pacific Co. |
| Colusa | Colusa | 60 | 7 | 56.4 | ..... | 77 | 9 | 38 | 23† | 34 | 2.77 | −0.21 | 0.98 | 0.0 | 5 | ..... | ..... | ..... | ..... | W. K. De Jarnatt. |
| Corning | Tehama | 277 | 24 | 60.7 | + 8.1 | 80 | 2† | 43 | 24 | .... | 3.54 | + 0.98 | 1.03 | 0.0 | 7 | 20 | 0 | 11 | n. | Southern Pacific Co. |
| Cuyamaca (1) | San Diego | 4,677 | 11 | 49.2 | + 9.3 | 74 | 3† | 28 | 27 | 32 | 5.19 | − 1.21 | 1.48 | 15.0 | 10 | 16 | 5 | 10 | e. | L. L. Macquarie. |
| Daunt | Tulare | 4,000 | 3 | 51.2 | ..... | 78 | 10 | 28 | 24† | 41 | 3.33 | ..... | 0.65 | 6.0 | 8 | 12 | 11 | 8 | ..... | D. L. Wishon. |
| Davisville | Yolo | 51 | 38 | 54.0 | − 2.2 | 79 | 9 | 28 | 22 | 46 | 2.57 | + 0.37 | 1.10 | 0.0 | 6 | 13 | 11 | 7 | ..... | S. H. Beckett. |
| Deer Creek | Nevada | 3,700 | 3 | 45.8 | ..... | 69 | 10† | 26 | 25 | 37 | 9.85 | ..... | 2.98 | 9.0 | 12 | 11 | 8 | 12 | ..... | Cal. Gas & Electric Co. |
| Delta | Shasta | 1,138 | 25 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Southern Pacific Co. |
| Denair | Stanislaus | 126 | 10 | 57.6 | + 3.9 | 80 | 5† | 38 | 7† | 41 | 3.00 | + 0.32 | 0.53 | 0.0 | 9 | 18 | 8 | 5 | ..... | Santa Fe Co. |
| Dobbins | Yuba | 1,650 | 6 | 57.8 | ..... | 86 | 9 | 38 | 25 | 34 | 4.52 | ..... | 2.00 | 0.0 | 11 | 12 | 12 | 7 | ..... | Cal. Gas & Electric Co. |
| Dudleys | Mariposa | 3,000 | 1 | 48.6 | ..... | 75 | 10 | 28 | 26 | 40 | 5.00 | ..... | 1.33 | 4.0 | 12 | 13 | 6 | 12 | nw. | W. H. Dudley. |
| Dunnigan | Yolo | 65 | 33 | 61.0 | + 6.0 | 76 | 10† | 43 | 27 | .... | 2.18 | − 0.22 | 0.70 | 0.0 | 6 | 14 | 7 | 10 | n. | Southern Pacific Co. |
| Dunsmuir | Siskiyou | 2,285 | 21 | 49.3 | + 4.9 | 77 | 30 | 34 | 24† | .... | 4.39 | − 2.68 | 1.01 | 0.0 | 9 | 18 | 0 | 13 | n. | Do. |
| Durham | Butte | 160 | 15 | 55.8 | + 4.7 | 80 | 2† | 35 | 28 | 40 | 3.32 | + 0.52 | 1.21 | 0.0 | 6 | 17 | 3 | 11 | n. | R. W. Durham |
| El Cajon | San Diego | 482 | 11 | 57.8 | + 2.1 | 88 | 3 | 36 | 29 | 43 | 2.21 | − 0.36 | 0.76 | 0.0 | 8 | 20 | 7 | 4 | sw. | H. H. Kessler. |
| Electra | Amador | 725 | 6 | 58.8 | ..... | 78 | 10 | 42 | 24† | 33 | 4.58 | ..... | 1.60 | 0.0 | 9 | 15 | 8 | 8 | ..... | Cal. Gas & Electric Co. |
| Elsinore | Riverside | 1,234 | 15 | 57.5 | + 1.2 | 91 | 1† | 28 | 24 | 52 | 1.19 | − 0.29 | 0.88 | 0.0 | 2 | 11 | 1 | 19 | w. | W. H. Bohannon. |
| Emigrant Gap | Placer | 5,250 | 36 | 42.1 | + 4.4 | 74 | 7 | 26 | 15† | 44 | 4.22 | − 4.30 | 1.40 | 28.0 | 7 | 19 | 0 | 12 | ..... | Southern Pacific Co. |
| Escondido | San Diego | 657 | 16 | 58.6 | + 4.3 | 88 | 2† | 35 | 29† | 48 | 1.82 | − 0.03 | 0.72 | 0.0 | 7 | 7 | 21 | 3 | w. | A. R. Moon. |
| Eureka | Humboldt | 64 | 24 | 49.6 | + 1.6 | 66 | 17 | 35 | 24 | 19 | 1.97 | − 4.21 | 0.68 | 0.0 | 14 | 4 | 9 | 18 | n. | U. S. Weather Bureau. |
| Farmington | San Joaquin | 111 | 31 | 56.9 | + 3.0 | 74 | 16 | 38 | 24† | .... | 3.70 | + 1.21 | 1.02 | 0.0 | 10 | 15 | 7 | 9 | nw. | Southern Pacific Co. |
| Folsom | Sacramento | 252 | 38 | 57.4 | + 1.9 | 80 | 9 | 38 | 25 | 33 | 3.55 | + 0.04 | 0.90 | 0.0 | 8 | 19 | 2 | 10 | n. | F. O. Hutton. |
| Fordyce Dam | Nevada | 6,500 | 15 | 36.6 | ..... | 59 | 1 | 10 | 28 | 44 | 7.42 | − 6.93 | 2.18 | 48.0 | 9 | 11 | 7 | 13 | sw. | E. E. Roening. |
| Fouts Springs | Colusa | 1,650 | 6 | 53.1 | ..... | 75 | 8 | 29 | 24† | 44 | 4.99 | ..... | 2.32 | 1.0 | 7 | ..... | ..... | ..... | ..... | H. S. Green. |
| Fresno | Fresno | 293 | 23 | 59.8 | + 4.9 | 84 | 12 | 38 | 24 | 35 | 1.28 | − 0.04 | 0.44 | 0.0 | 7 | 11 | 12 | 8 | nw. | U. S. Weather Bureau. |
| Fruto | Glenn | 624 | 21 | 54.9 | + 2.0 | 75 | 9† | 36 | 23† | .... | 5.15 | + 2.71 | 1.70 | 0.0 | 7 | 21 | 0 | 10 | s. | Southern Pacific Co. |
| Galt | Sacramento | 49 | 32 | 57.2 | + 2.0 | 80 | 29 | 38 | 26† | .... | 2.52 | − 0.35 | 1.00 | 0.0 | 5 | 19 | 0 | 12 | ..... | Do. |
| Georgetown | El Dorado | 2,650 | 37 | 52.1 | + 0.2 | 76 | 3 | 32 | 23† | 35 | 6.86 | − 2.56 | 2.08 | T. | 12 | 16 | 0 | 15 | e. | H. D. Jerrett. |
| Gilroy | Santa Clara | 193 | 36 | 57.6 | + 3.9 | 85 | 16 | 40 | 9‡ | .... | 3.07 | + 0.03 | 0.80 | 0.0 | 12 | 16 | 1 | 14 | se. | Southern Pacific Co. |
| Gold Run | Placer | 3,222 | 11 | 52.5 | + 7.7 | 77 | 13 | 32 | 22† | 30 | 6.65 | − 6.26 | 1.95 | T. | 8 | 17 | 3 | 11 | ..... | Do. |
| Gonzales | Monterey | 127 | 11 | 54.2 | + 3.7 | 92 | 2 | 37 | 24 | .... | 2.28 | − 0.26 | 0.83 | 0.0 | 10 | 15 | 0 | 16 | n. | Do. |
| Grass Valley | Nevada | 2,690 | 38 | 51.8 | ..... | 75 | 9† | 31 | 25 | 31 | 6.33 | − 1.22 | 2.41 | 0.0 | 9 | 12 | 14 | 5 | sw. | F. R. Hull. |
| Greenville | Plumas | 3,600 | 16 | 46.4 | + 7.9 | 72 | 12† | 24 | 6 | 45 | 3.98 | − 3.09 | 1.34 | 1.5 | 6 | 14 | 6 | 11 | sw. | C. H. Higbie. |
| Groveland | Tuolumne | 2,828 | 1 | 49.7 | ..... | 72 | 10 | 31 | 23† | 30 | 4.83 | ..... | 0.99 | 0.0 | 11 | 7 | 12 | 12 | ..... | H. S. Richardson. |
| Guinda | Yolo | 350 | 12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Southern Pacific Co. |
| Hanford | Kings | 249 | 10 | 60.0 | + 6.4 | 84 | 13 | 40 | 24 | 37 | 1.66 | − 0.25 | 0.99 | 0.0 | 3 | 19 | 2 | 10 | ..... | Santa Fe Co. |
| Healdsburg | Sonoma | 110 | 17 | 55.8 | + 5.5 | 84 | 9 | 33 | 7 | 43 | 5.05 | − 0.01 | 1.37 | 0.0 | 10 | 12 | 2 | 17 | s. | John Favour. |
| Hearst | Mendocino | 1,800 | .... | 50.4 | ..... | 83 | 10 | 32 | 24 | 47 | 3.54 | ..... | 0.55 | 0.0 | 10 | 15 | 5 | 11 | w. | H. D. Ellmaker. |
| Heber | Imperial | − 20 | 4 | 67.0 | ..... | 98 | 4 | 40 | 27† | 49 | 0.04 | ..... | 0.04 | 0.0 | 1 | 30 | 0 | 1 | w. | E. T. Chumard. |
| Hollister | San Benito | 284 | 36 | 55.2 | + 0.7 | 79 | 31 | 37 | 9† | 38 | 2.25 | + 0.26 | 0.46 | 0.0 | 12 | 9 | 12 | 10 | w. | J. N. Thompson. |
| Hornbrook | Siskiyou | 2,154 | 22 | 49.3 | + 3.8 | 78 | 15† | 40 | 1† | .... | 0.00 | − 1.22 | 0.00 | 0.0 | 0 | 27 | 4 | 0 | n. | Southern Pacific Co. |
| Hot Springs | Tulare | 3,300 | 3 | 50.6 | ..... | 74 | 13 | 32 | 23† | 33 | 2.37 | ..... | 0.82 | 0.0 | 8 | 20 | 2 | 9 | ..... | U. S. Forest Service. |
| Hullville (near) | Lake | 2,250 | 3 | 51.1 | ..... | 79 | 2† | 26 | 25 | 49 | 3.34 | ..... | 0.87 | 0.0 | 10 | 4 | 15 | 12 | sw. | John Duggan. |
| Idyllwild | Riverside | 5,250 | 9 | 47.8 | ..... | 77 | 4 | 22 | 29 | 43 | 3.08 | ..... | 0.87 | 18.0 | 8 | 18 | 7 | 6 | sw. | Earl Powers. |
| Independence | Inyo | 3,907 | 14 | 53.2 | + 3.6 | 80 | 4 | 26 | 24 | 41 | 0.10 | − 0.38 | 0.08 | 0.0 | 2 | 16 | 12 | 3 | ..... | U. S. Weather Bureau. |
| Indio | Riverside | − 20 | 32 | 68.9 | + 3.6 | 99 | 2 | 36 | 28 | 45 | 0.08 | − 0.12 | 0.08 | 0.0 | 1 | 23 | 7 | 1 | nw. | P. N. Johnson. |
| Inskip | Butte | 4,975 | 3 | 43.9 | ..... | 70 | 10 | 22 | 24 | 32 | 8.18 | ..... | 1.74 | 38.7 | 9 | 11 | 7 | 13 | ..... | Cal. Gas & Electric Co. |
| Ione | Amador | 287 | 32 | 56.4 | + 2.5 | 74 | 13 | 41 | 7† | .... | 3.43 | − 0.01 | 1.25 | 0.0 | 6 | 20 | 0 | 11 | sw. | Southern Pacific Co. |
| Iowa Hill | Placer | 2,825 | 29 | 53.3 | + 6.2 | 77 | 10† | 32 | 25 | 33 | 7.32 | − 1.50 | 2.37 | 0.0 | 9 | 13 | 6 | 12 | sw. | C. F. Macy. |
| Jamestown | Tuolumne | 1,471 | 7 | 54.8 | ..... | 78 | 12 | 35 | 24 | 34 | 4.28 | ..... | 1.10 | 0.0 | 8 | 16 | 9 | 6 | ..... | Sierra Ry. of California. |
| King City | Monterey | 333 | 23 | 55.9 | + 2.4 | 84 | 14 | 31 | 11 | 51 | 2.54 | + 0.74 | 0.80 | 0.0 | 10 | 18 | 0 | 13 | s. | Southern Pacific Co. |
| La Porte | Plumas | 5,000 | 16 | 42.3 | + 7.8 | 68 | 10 | 31 | 25 | 35 | 8.12 | − 3.92 | 2.34 | 36.0 | 12 | 15 | 5 | 11 | n. | C. W. Hendel. |
| Le Grand | Merced | 255 | 10 | 55.4 | + 3.5 | 79 | 13 | 32 | 1 | 37 | 1.88 | − 0.25 | 0.90 | 0.0 | 5 | 20 | 0 | 11 | ..... | Santa Fe Co. |
| Lemon Cove | Tulare | 600 | 15 | 61.8 | + 5.7 | 88 | 12 | 35 | 13 | 47 | 1.97 | − 1.58 | 0.82 | 0.0 | 4 | 10 | 13 | 8 | w. | G. W. Sandidge. |
| Lick Observatory | Santa Clara | 4,209 | 21 | 47.0 | + 6.0 | 68 | 11 | 28 | 23 | 17 | 3.28 | − 1.90 | 0.67 | 0.0 | 14 | 14 | 3 | 14 | n. | The Director. |
| Livermore | Alameda | 485 | 39 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | E. G. Still. |
| Lodi | San Joaquin | 45 | 28 | 55.7 | + 1.0 | 75 | 17† | 35 | 28 | 33 | 2.53 | − 0.49 | 0.94 | 0.0 | 8 | 12 | 12 | 7 | nw. | Ezra Fiske. |

TABLE 1.—*Climatological data for March, 1910. District No. 11*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | |
| *California*—Cont'd. | | | | | | | | | | | | | | | | | | | |
| Lone Pine | Inyo | 2,728 | 5 | 53.2 | ..... | 79 | 8 | 27 | 25† | 42 | 0.63 | ..... | 0.38 | 0.0 | 3 | 20 | 10 | 1 | s. | G. F. Marsh. |
| Long Valley | Lassen | 4,400 | 1 | 45.7 | | 69 | 17 | 24 | 25 | 38 | 0.83 | ..... | 0.25 | T. | 9 | 10 | 9 | 12 | sw. | A. G. Evans. |
| Los Angeles | Los Angeles | 293 | 33 | 59.0 | + 3.4 | 86 | 2 | 41 | 27 | 29 | 1.86 | − 1.12 | 0.92 | 0.0 | 5 | 11 | 7 | 13 | sw. | U. S. Weather Bureau. |
| Los Banos | Merced | 121 | 23 | 59.0 | + 3.2 | 75 | 11† | 50 | 5† | ... | 2.03 | + 0.92 | 0.45 | 0.0 | 6 | 15 | 0 | 16 | w. | Southern Pacific Co. |
| Los Gatos | Santa Clara | 600 | 23 | 57.0 | + 5.2 | 80 | 31 | 36 | 12† | 42 | 4.28 | − 0.57 | 1.42 | 0.0 | 11 | 15 | 12 | 4 | n. | F. H. McCullagh. |
| Lytle Creek | San Bernardino | 2,900 | 1 | 53.7[b] | ..... | 85[b] | 3 | 30[b] | 24† | 43[b] | 2.78 | ..... | 1.40 | 4.0 | 6 | 14 | 10 | 7 | ..... | W. E. Anderson. |
| Macdoel | Siskiyou | 4,258 | 3 | 35.4 | ..... | 70 | 11 | 6 | 25 | 58 | 0.34 | ..... | 0.15 | 1.5 | 3 | 9 | 15 | 7 | s. | Butte Valley L'd Co. |
| Madeline | Lassen | 5,270 | 1 | | | | | | | | | | | | | | | | | J. H. Williams. |
| Magalia | Butte | 2,321 | 6 | 49.4 | | 77 | 10 | 29 | 27† | 41 | 8.10 | ..... | 2.02 | 0.0 | 8 | 20 | 2 | 9 | s. | Butte County R. R. Co. |
| Mammoth Tank | Imperial | 257 | 32 | 68.2 | + 2.1 | 95 | 5 | 42 | 29 | 43 | 0.07 | − 0.12 | 0.06 | 0.0 | 2 | 28 | 0 | 3 | w. | Southern Pacific Co. |
| Marysville | Yuba | 67 | 39 | | | | | | | | | | | | | | | | | Do. |
| Mecca | Riverside | − 185 | 4 | 66.8 | ..... | 95 | 2 | 40 | 26† | 47 | 0.00 | ..... | 0.00 | 0.0 | 0 | 22 | 9 | 0 | se. | A. Lunsted. |
| Menlo Park | San Mateo | 64 | 32 | 55.5 | + 2.1 | 74 | 31 | 40 | 24† | .... | 2.49 | − 0.13 | 0.68 | 0.0 | 6 | 13 | 0 | 18 | n. | Southern Pacific Co. |
| Merced | Merced | 173 | 36 | | | | | | | | | | | | | | | | | Santa Fe Co. |
| Mill Creek (1) | Amador | | 3 | 49.5 | | 72 | 9† | 33 | 25 | 34 | 5.94 | ..... | 2.68 | 1.0 | 11 | 11 | 8 | 12 | s. | Cal. Gas & Electric Co. |
| Milton (near) | Calaveras | 660 | 19 | 57.0 | + 3.0 | 74 | 10† | 41 | 24 | 23 | 3.50 | − 0.48 | 1.30 | 0.0 | 8 | 15 | 7 | 9 | w. | J. H. Southwick. |
| Modesto | Stanislaus | 90 | 38 | 60.1 | + 4.2 | 78 | 31 | 41 | 14 | .... | 2.80 | − 1.43 | 0.85 | 0.0 | 5 | 18 | 0 | 13 | ..... | Southern Pacific Co. |
| Mojave | Kern | 2,751 | 33 | | | | | | | | | | | | | | | | | Do. |
| Mokelumne Hill | Calaveras | 1,550 | 17 | 55.0 | + 8.2 | 77 | 12 | 36 | 24 | 24 | 5.09 | − 0.51 | 1.16 | 0.0 | 9 | 16 | 1 | 14 | ..... | C. E. Prindle. |
| Mono Ranch | Ventura | 3,210 | 4 | 49.6 | ..... | 78 | 3 | 26 | 26 | 41 | 3.58 | ..... | 1.25 | 5.0 | 5 | 13 | 11 | 7 | w. | H. Lathrop. |
| Montague | Siskiyou | 2,450 | 22 | | | | | | | | | | | | | | | | | G. H. Chambers. |
| Monterey | Monterey | 15 | 45 | 56.1 | + 2.2 | 68 | 30† | 44 | 23 | ... | 3.13 | + 0.48 | 1.22 | 0.0 | 8 | 16 | 12 | 3 | se. | Southern Pacific Co. |
| Monterio | Kern | 4,500 | 11 | 51.0 | + 0.7 | 72 | 19 | 32 | 23† | 26 | 1.25 | − 2.94 | 0.35 | 0.0 | 7 | 12 | 7 | 12 | nw. | John C. Knecht. |
| Monumental | Del Norte | ..... | 5 | 46.6 | ..... | 76 | 11† | 28 | 23 | 42 | 3.22 | ..... | 0.90 | 0.0 | 8 | 18 | 1 | 12 | ..... | G. F. Morgan. |
| Mount Tamalpais | Marin | 2,375 | 11 | 50.8 | + 3.7 | 70 | 10 | 34 | 23 | 24 | 3.35 | − 1.78 | 0.94 | 0.0 | 12 | 11 | 7 | 13 | nw. | U. S. Weather Bureau. |
| Napa City | Napa | 20 | 33 | 55.0 | + 3.2 | 79 | 31 | 35 | 28 | 38 | 4.09 | + 0.36 | 1.12 | 0.0 | 9 | 14 | 11 | 6 | s. | Thomas Hull. |
| Napa (S. H.) | ....do | 60 | 32 | 57.8 | + 6.0 | 81 | 9 | 39 | 28 | 35 | 3.59 | − 0.11 | 0.94 | 0.0 | 11 | 10 | 10 | 11 | sw. | W. H. Martin. |
| Needles | San Bernardino | 477 | 18 | 68.2 | + 3.4 | 96 | 5† | 44 | 1† | 47 | 0.11 | − 0.10 | 0.11 | 0.0 | 1 | 29 | 1 | 1 | sw. | Santa Fe Co. |
| Nellie | San Diego | 5,350 | 1 | | | | | | | | | | | | | | | | | C. J. Bailey. |
| Nevada City | Nevada | 2,580 | 18 | 50.4 | + 6.2 | 77 | 10 | 27 | 25 | 42 | 6.61 | − 1.79 | 2.64 | T. | 11 | 13 | 11 | 7 | sw. | S. W. Marsh. |
| Newcastle | Placer | 970 | 17 | 63.2 | +12.2 | 85 | 31 | 38 | 25 | 45 | 4.36 | − 0.18 | 1.72 | 0.0 | 10 | 11 | 14 | 6 | nw. | George D. Kellog. |
| Newhall | Los Angeles | 1,200 | 33 | 54.8 | + 0.7 | 92 | 3 | 38 | 27† | ... | 2.55 | − 0.26 | 0.93 | 0.0 | 4 | 21 | 0 | 10 | se. | Southern Pacific Co. |
| Newman | Stanislaus | 91 | 21 | 58.6[d] | + 2.5 | 79[d] | 10 | 39[d] | 22 | 35[d] | 2.60 | + 0.85 | 0.59 | 0.0 | 10 | 18 | 0 | 13 | n. | E. S. Wangenheim. |
| Nimshew | Butte | 2,500 | 6 | 50.1 | ..... | 75 | 9 | 30 | 24 | 38 | 6.76 | ..... | 1.31 | T. | 11 | 15 | 6 | 10 | ..... | Cal. Gas & Electric Co. |
| North Bloomfield | Nevada | 3,200 | 13 | | | | | | | | | | | | | | | | | W. G. Shand. |
| North Fork | Madera | 3,000 | 6 | 51.7 | ..... | 76 | 10† | 29 | 27 | 40 | 2.69 | ..... | 0.82 | 0.0 | 8 | 8 | 7 | 16 | w. | G. H. Shinn. |
| Oakdale | Stanislaus | 156 | 16 | 56.7 | + 4.0 | 76 | 9 | 41 | 25† | ... | 3.28 | + 0.91 | 1.11 | 0.0 | 10 | 18 | 6 | 7 | nw. | Southern Pacific Co. |
| Oakland | Alameda | 36 | 34 | 55.1 | + 2.1 | 72 | 9† | 42 | 8† | 26 | 3.06 | − 0.10 | 0.83 | 0.0 | 9 | 10 | 10 | 11 | w. | Chabot Observatory. |
| Oceanside | San Diego | | | 59.3 | ..... | 78 | 30 | 44 | 28 | 27 | 1.76 | ..... | 0.98 | 0.0 | 7 | 5 | 18 | 8 | w. | H. D. Brodie. |
| Ojai Valley | Ventura | 900 | 4 | 56.8 | ..... | 89 | 2 | 31 | 26 | 47 | 2.84 | ..... | 1.34 | 0.0 | 6 | 13 | 13 | 5 | sw. | W. H. Duncan. |
| Orland | Glenn | 254 | 28 | 57.3 | + 1.6 | 81 | 10 | 36 | 22† | 35 | 3.40 | + 1.23 | 1.00 | 0.0 | 8 | 18 | 9 | 4 | n. | W. W. Patch. |
| Orleans | Humboldt | 520 | 7 | 60.0 | ..... | 88 | 12† | 36 | 25 | 47 | 0.90 | ..... | 0.35 | 0.0 | 9 | 19 | 0 | 12 | ..... | Fred T. Hale. |
| Oroville (near) | Butte | 250 | 26 | 56.4 | + 0.6 | 80 | 10† | 36 | 8† | 42 | 2.72 | − 0.72 | 1.30 | 0.0 | 5 | 18 | 1 | 12 | se. | E. D. Fairchild. |
| Palermo | ....do | 213 | 19 | 56.6 | + 3.8 | 86 | 9 | 35 | 7† | 41 | 2.75 | + 0.21 | 1.05 | 0.0 | 5 | 17 | 7 | 7 | n. | Miss Hettie Boalt. |
| Palm Springs | Riverside | 584 | 21 | 66.1 | + 1.0 | 94 | 3† | 47 | 27 | ... | T. | − 0.35 | T. | 0.0 | 0 | 15 | 12 | 4 | w. | Southern Pacific Co. |
| Pasadena | Los Angeles | 827 | 20 | 57.6 | + 3.2 | 90 | 2 | 36 | 28 | 41 | 2.56 | − 1.12 | 0.95 | 0.0 | 10 | 20 | 9 | 2 | sw. | E. R. Sorver. |
| Paso Robles | San Luis Obispo | 800 | 23 | | | | | | | | | | | | | | | | | Dr. F. W. Sawyer. |
| Peachland | Sonoma | 190 | 14 | 54.0 | + 2.2 | 82 | 9 | 33 | 24† | 42 | 5.79 | + 0.64 | 1.24 | 0.0 | 10 | 16 | 5 | 10 | sw. | E. H. Parnell. |
| Penstock Camp | Tuolumne | 3,750 | 3 | 51.0 | ..... | 76 | 10 | 32 | 21† | 27 | 5.68 | ..... | 1.40 | 4.5 | 11 | ..... | ..... | ..... | ..... | Tuolumne W. P. Co. |
| Placerville | El Dorado | 1,875 | 21 | 51.2 | + 4.9 | 71 | 10 | 32 | 25 | 30 | 5.76 | − 1.72 | 1.62 | 0.0 | 7 | 17 | 5 | 9 | ..... | A. Baring-Gould. |
| Point Lobos | San Francisco | 250 | 17 | 55.2 | + 5.2 | 74 | 9 | 44 | 27 | 34 | 3.38 | + 0.23 | 1.07 | 0.0 | 11 | 4 | 8 | 19 | nw. | John Hyslop. |
| Point Reyes | Marin | 490 | 18 | 50.3 | + 0.7 | 68 | 9 | 43 | 12 | 22 | 4.02 | + 0.27 | 1.16 | 0.0 | 10 | 8 | 6 | 17 | nw. | U. S. Weather Bureau. |
| Porterville | Tulare | 464 | 21 | 59.6 | + 2.8 | 88 | 30 | 36 | 24 | 43 | 1.96 | + 0.57 | 0.68 | 0.0 | 6 | 12 | 14 | 5 | ..... | Harry E. Cowie. |
| Quincy | Plumas | 3,400 | 15 | 45.7 | + 4.7 | 85 | 13 | 22 | 25† | 56 | 2.52 | − 6.26 | 1.45 | 2.0 | 6 | 19 | 3 | 9 | sw. | D. N. Rogers. |
| Red Bluff | Tehama | 307 | 33 | 57.7 | + 3.9 | 80 | 9 | 37 | 24 | 30 | 3.36 | + 0.09 | 1.36 | 0.0 | 6 | 14 | 6 | 11 | nw. | U. S. Weather Bureau. |
| Redding | Shasta | 552 | 35 | 57.8 | + 4.0 | 78 | 9† | 35 | 23 | 29 | 4.77 | + 0.02 | 1.87 | 0.0 | 8 | 15 | 5 | 11 | n. | L. F. Bassett. |
| Redlands | San Bernardino | 1,352 | 17 | 58.6 | + 3.9 | 89 | 1† | 36 | 27 | 43 | 1.57 | − 1.06 | 0.47 | 0.0 | 7 | 13 | 11 | 7 | w. | Paul W. Moore. |
| Reedley | Fresno | 347 | 10 | 59.5 | + 2.9 | 85 | 11† | 36 | 24 | 39 | 1.52 | − 0.36 | 0.45 | 0.0 | 5 | 17 | 3 | 11 | n. | Santa Fe Co. |
| Rialto (near) | San Bernardino | 2,250 | 4 | 59.2 | ..... | 87 | 3 | 35 | 28 | 38 | 2.87 | ..... | 1.21 | 2.0 | 7 | 10 | 9 | 12 | se. | So. California Edison Co. |
| Riverside | Riverside | 851 | 28 | 59.2 | + 3.3 | 92 | 2 | 37 | 2† | 55 | 1.73 | − 0.23 | 0.94 | 0.0 | 5 | 14 | 9 | 8 | w. | C. W. Barton. |
| Rocklin | Placer | 249 | 39 | 57.7 | + 2.8 | 90 | 12 | 38 | 7† | 47 | 2.52 | − 0.48 | 1.05 | 0.0 | 6 | 15 | 2 | 14 | n. | Southern Pacific Co. |
| Rohnerville | Humboldt | 75 | 7 | 52.5 | | 74 | 15 | 33 | 7‡ | 29 | 2.64 | | 0.51 | 0.0 | 8 | 10 | 12 | 9 | n. | Dr. R. Callahan. |
| Sacramento (1) | Sacramento | 71 | 33 | 57.0 | + 2.8 | 77 | 10 | 42 | 29 | 28 | 3.06 | + 0.12 | 1.37 | 0.0 | 8 | 14 | 8 | 9 | se. | U. S. Weather Bureau. |
| Sacramento (2) | ....do | 35 | 57 | 57.4 | + 2.6 | 75 | 9† | 40 | 28 | 30 | 3.51 | + 0.68 | 1.56 | 0.0 | 7 | 14 | 6 | 11 | nw. | S. H. Gerrish. |
| St. Helena | Napa | 255 | 2 | 54.6 | ..... | 80 | 9 | 34 | 24 | 37 | 4.46 | ..... | 1.15 | 0.0 | 8 | 15 | 5 | 11 | n. | B. F. Kettlewell. |
| Salinas | Monterey | 40 | 36 | 56.0 | + 3.3 | 79 | 2 | 37 | 24 | 35 | 1.55 | − 0.66 | 0.51 | 0.0 | 5 | 19 | 9 | 3 | n. | Miss E. Ruth Abbott. |
| San Bernardino | San Bernardino | 1,054 | 18 | 59.6 | + 4.5 | 95 | 1 | 33 | 11 | 53 | 1.58 | − 0.90 | 0.64 | 0.0 | 6 | 10 | 16 | 5 | sw. | Dr. A. K. Johnson. |
| San Diego | San Diego | 93 | 39 | 57.2 | + 1.0 | 84 | 31 | 45 | 27 | 32 | 1.30 | − 0.24 | 0.63 | 0.0 | 7 | 13 | 11 | 7 | nw. | U. S. Weather Bureau. |
| San Francisco | San Francisco | 207 | 39 | 54.9 | + 2.2 | 77 | 9 | 44 | 27 | 27 | 3.78 | + 0.70 | 1.17 | 0.0 | 11 | 13 | 10 | 8 | w. | Do. |
| San Jacinto | Riverside | 1,550 | 17 | 60.0 | + 6.5 | 102 | 4 | 36 | 29 | 58 | 2.29 | + 0.16 | 0.60 | 0.5 | 7 | 15 | 9 | 7 | w. | E. T. Tanner. |
| San Jose | Santa Clara | 95 | 35 | 55.4 | + 1.7 | 78 | 31 | 37 | 24 | 35 | 2.84 | + 0.26 | 0.82 | 0.0 | 12 | 10 | 11 | 10 | nw. | U. S. Weather Bureau. |
| San Leandro | Alameda | 48 | 15 | | | | | | | | | | | | | | | | | E. B. Sanford. |
| San Luis Obispo | San Luis Obispo | 201 | 15 | 56.5 | + 2.7 | 84 | 2 | 38 | 28 | 32 | 3.82 | + 0.80 | 1.34 | 0.0 | 11 | 8 | 5 | 18 | s. | U. S. Weather Bureau. |
| San Mateo | San Mateo | 22 | 36 | 58.9 | + 5.8 | 76 | 9 | 46 | 6† | .... | 3.78 | + 0.64 | 0.94 | 0.0 | 11 | 19 | 5 | 7 | nw. | Southern Pacific Co. |
| San Miguel | San Luis Obispo | 616 | 23 | 58.1 | + 4.6 | 82 | 10 | 42 | 12† | .... | 2.36 | + 0.36 | 0.73 | 0.0 | 9 | 7 | 16 | 8 | ..... | Do. |
| San Miguel Island | Santa Barbara | 500 | | | | | | | | | | | | | | | | | | Capt. W. G. Waters. |
| Sanger | Fresno | 371 | 21 | 63.7 | + 6.9 | 80 | 3† | 52 | 10 | ... | 0.15 | − 1.79 | 0.10 | 0.0 | 2 | 12 | 0 | 19 | ..... | Southern Pacific Co. |
| Santa Barbara | Santa Barbara | 130 | 26 | 55.8 | + 0.4 | 82 | 2 | 39 | 27 | 36 | 3.62 | − 1.36 | 1.46 | 0.0 | 9 | 16 | 8 | 7 | w. | George W. Russell. |
| Santa Clara | Santa Clara | 90 | 21 | 55.6 | + 3.0 | 79 | 31 | 35 | 24 | 39 | 2.30 | + 0.63 | 0.69 | 0.0 | 13 | 16 | 5 | 10 | nw. | Santa Clara College. |
| Santa Cruz | Santa Cruz | 20 | 37 | 53.9 | − 0.6 | 78 | 31 | 36 | 8† | 38 | 6.50 | + 2.49 | 1.75 | 0.0 | 11 | 16 | 4 | 11 | s. | W. R. Springer. |
| Santa Magarita | San Luis Obispo | 996 | 21 | 53.8 | + 4.1 | 70 | 6† | 35 | 23 | ... | 3.08 | − 1.94 | 1.75 | 0.0 | 5 | 22 | 0 | 9 | nw. | Southern Pacific Co. |
| Santa Maria | Santa Barbara | 220 | 22 | 56.4 | + 1.2 | 84 | 1 | 35 | 26 | 38 | 3.82 | + 1.57 | 1.30 | 0.0 | 6 | 5 | 6 | 20 | w. | L. E. Blochman. |
| Santa Monica | Los Angeles | 110 | 25 | 53.4 | − 4.4 | 73 | 3† | 38 | 5 | 29 | 2.09 | − 0.23 | 1.06 | 0.0 | 5 | 16 | 2 | 13 | w. | N. D. Ingham. |
| Santa Rosa | Sonoma | 181 | 21 | 54.1 | + 1.5 | 80 | 9 | 33 | 24 | 39 | 4.17 | − 0.18 | 1.06 | 0.0 | 9 | 13 | 8 | 12 | sw. | M. L. McDonald, jr. |
| Selma | Fresno | 311 | 24 | 57.6 | + 2.8 | 80 | 12 | 40 | 26 | ... | 1.09 | − 0.22 | 0.34 | 0.0 | 5 | 20 | 10 | 1 | se. | Southern Pacific Co. |
| Shasta | Shasta | 1,049 | 14 | 54.4 | + 0.4 | 87 | 10 | 30 | 23 | 45 | 5.93 | − 2.58 | 1.54 | 0.0 | 10 | 21 | 1 | 9 | nw. | Dr. T. J. Edgecomb. |
| Sierra Madre | Los Angeles | 1,400 | 13 | 58.0 | + 2.3 | 88 | 2 | 38 | 28 | 34 | 3.11 | − 2.15 | 1.43 | 0.0 | 6 | 14 | 4 | 13 | se. | Miss A. E. Carter. |
| Sierraville | Sierra | 5,000 | .... | 42.8 | ..... | 67 | 30† | 21 | 24 | 42 | 3.15 | ..... | 0.90 | 15.0 | 4 | 12 | 5 | 14 | sw. | C. D. Johnson. |
| Sisson | Siskiyou | 3,555 | 21 | 43.7 | + 4.0 | 70 | 14 | 20 | 24 | 40 | 3.36 | − 0.96 | 0.86 | 12.0 | 9 | 18 | 0 | 13 | n. | Southern Pacific Co. |
| Soledad | Monterey | 188 | 36 | 59.6 | + 6.0 | 83 | 4 | 30 | 10 | ... | 2.23 | + 0.73 | 0.80 | 0.0 | 9 | 10 | 2 | 19 | s. | Do. |
| Southeast Farallon | San Francisco | 30 | 7 | 50.5 | ..... | 57 | 15 | 44 | 27 | 9 | 3.49 | ..... | 1.37 | 0.0 | 9 | 7 | 7 | 17 | nw. | U. S. Weather Bureau. |
| Sonora | Tuolumne | 1,823 | 22 | 54.2 | ..... | 74 | 12 | 36 | 24 | 28 | 4.33 | − 1.78 | 1.14 | 0.0 | 9 | 14 | 8 | 9 | sw. | Charles P. Jones. |
| Stirling City | Butte | 3,525 | 6 | 46.6 | | 71 | 11† | 26 | 24† | 34 | 6.00 | ..... | 1.40 | 6.0 | 8 | 14 | 4 | 13 | se. | Butte County R. R. Co. |
| Stockton (S. H.) | San Joaquin | 23 | 39 | 55.0 | + 0.5 | 74 | 3 | 40 | 24† | 27 | 2.66 | + 6.38 | 0.65 | 0.0 | 8 | 15 | 10 | 6 | nw. | State Hospital. |
| Storey | Madera | 296 | 10 | 54.6 | + 2.0 | 78 | 12 | 34 | 4 | 41 | 1.40 | − 0.56 | 0.75 | 0.0 | 2 | 22 | 0 | 9 | nw. | Santa Fe Co. |
| Suisun | Solano | 20 | 30 | 56.6 | + 0.8 | 82 | 1 | 44 | 6† | .... | 3.07 | + 0.15 | 0.95 | 0.0 | 8 | 20 | 1 | 10 | w. | Southern Pacific Co. |
| Summerdale | Mariposa | 5,270 | 14 | 46.2 | + 8.9 | 70 | 3 | 24 | 26 | 31 | 3.66 | − 8.78 | 1.14 | 17.0 | 11 | 7 | 7 | 17 | ..... | J. H. Lowry. |

TABLE 1.—*Climatological data for March, 1910. District No. 11*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *California*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Summit | Placer | 7,017 | 37 | 37.8 | + 6.4 | 53 | 18 | 18 | 25 | 19 | 4.98 | − 3.07 | 1.90 | 42.0 | 10 | 15 | 1 | 15 | sw. | Southern Pacific Co. |
| Susanville | Lassen | 4,175 | 21 | 44.3 | + 4.7 | 68 | 18† | 22 | 24 | 35 | 1.20 | − 1.50 | 0.57 | 0.0 | 8 | 12 | 16 | 3 | sw. | James Branham. |
| Tamarack | Alpine | 8,000 | 4 | 36.8 | ..... | 64 | 7† | 11 | 23 | 47 | 3.37 | ..... | 0.90 | 31.0 | 10 | 14 | 7 | 10 | sw. | William Bennett. |
| Tehachapi | Kern | 3,964 | 33 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Southern Pacific Co. |
| Tehama | Tehama | 220 | 39 | 69.2 | +13.3 | 89 | 30 | 54 | 24 | .... | 3.23 | + 0.88 | 1.00 | 0.0 | 7 | 21 | 0 | 10 | n. | Do. |
| Three Rivers | Tulare | 870 | .... | 57.8 | ..... | 83 | 12 | 36 | 24 | 41 | 2.02 | ..... | 0.58 | 0.0 | 8 | 11 | 13 | 7 | sw. | E. D. Barton. |
| Towle | Placer | 3,704 | 24 | 47.0 | + 2.4 | 72 | 10 | 28 | 14† | 38 | 6.84 | − 1.15 | 1.78 | 3.0 | 9 | 18 | 3 | 10 | n. | Southern Pacific Co. |
| Tracy | San Joaquin | 64 | 30 | 53.0 | − 1.8 | 66 | 8 | 38 | 7 | .... | ..... | ..... | ..... | 0.0 | 6 | 13 | 6 | 12 | ne. | Do. |
| Ukiah | Mendocino | 620 | 17 | 54.5 | + 4.3 | 84 | 12 | 30 | 24† | 46 | 2.60 | − 2.23 | 1.26 | 0.0 | 6 | 14 | 12 | 5 | nw. | Dr. George McGowen. |
| Upland | San Bernardino | 1,750 | 13 | 56.8 | + 3.6 | 88 | 2 | 36 | 27† | 42 | 2.35 | − 2.91 | 1.30 | 0.0 | 4 | 19 | 8 | 4 | w. | A. P. Harwood. |
| Upper Lake | Lake | 1,350 | 25 | 52.6 | + 2.2 | 79 | 11 | 31 | 24 | 37 | 3.43 | + 0.29 | 0.77 | 0.0 | 9 | 18 | 3 | 10 | se. | C. M. Hammond. |
| Vacaville | Solano | 175 | 22 | 56.1 | + 1.8 | 81 | 10 | 35 | 24 | 40 | 6.82 | + 3.03 | 3.19 | 0.0 | 9 | 14 | 13 | 4 | sw. | G. O. Coburn. |
| Valley Springs | Calveras | 673 | 21 | 60.8 | + 6.5 | 78 | 10† | 46 | 25 | .... | 3.85 | − 0.24 | 1.04 | 0.0 | 9 | 13 | 5 | 13 | nw. | Southern Pacific Co. |
| Visalia | Tulare | 334 | 22 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Santa Fe Co. |
| Warner Springs | San Diego | 3,165 | 2 | 50.0 | ..... | 88 | 3 | 31 | 28 | 47 | 2.67 | ..... | 1.38 | 5.5 | 5 | ..... | ..... | ..... | ..... | Mrs. E. F. Sanford. |
| Wasco | Kern | 336 | 10 | 51.6 | − 4.3 | 75 | 4† | 33 | 1† | 48 | 0.68 | − 0.38 | 0.25 | 0.0 | 4 | 23 | 2 | 6 | ..... | Santa Fe Co. |
| Watsonville | Santa Cruz | 23 | 14 | 55.8 | + 0.7 | 82 | 30 | 39 | 9 | 39 | 2.79 | − 0.83 | 0.63 | 0.0 | 10 | 5 | 15 | 11 | sw. | Spreckels Sugar Co. |
| Westley | Stanislaus | 90 | 21 | 56.2 | − 1.6 | 78 | 11 | 42 | 7† | .... | 3.02 | + 1.48 | 0.90 | 0.0 | 7 | 12 | 0 | 19 | ..... | Southern Pacific Co. |
| Wheatland | Yuba | 84 | 23 | 56.0 | + 3.1 | 78 | 10 | 39 | 25 | 33 | 3.23 | + 0.45 | 1.61 | 0.0 | 7 | 12 | 10 | 9 | n. | Wm. Lumbard. |
| Willows | Glenn | 136 | 31 | 55.9 | + 1.3 | 78 | 9 | 37 | 23† | 35 | 3.62 | + 1.96 | 1.35 | 0.0 | 7 | 22 | 2 | 7 | n. | M. T. Harrington, jr. |
| Yosemite | Mariposa | 3,945 | 6 | 47.2 | ..... | 74 | 9 | 24 | 24 | 48 | 2.44 | ..... | 0.84 | 7.0 | 9 | 14 | 10 | 7 | sw. | C. W. Tucker. |

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1910. District No. 11, California.*

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Oregon.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Klamath Agency | Klamath | | | | | | | | | | | | | | | | | | | | .12 | .04 | .29 | .03 | T. | | | | | | | .01 | 0.00 |
| Klamath Falls | ...do | .04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.53 |
| Lakeview | Pitt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Long Valley | ...do | .24 | | | | | | | | | | | | | | | | T. | .16 | .22 | .10 | .07 | .22 | .11 | .01 | | T. | .04 | | | | .05 | 1.22 |
| Merrill | Interior Drainage | | | | | | | | | | | | | | | | | | | | .02 | .05 | | | | | | | | | | | 0.07 |
| Yonna | ...do | .03 | | | | | | | | | | | | | | | | | | | | .05 | .34 | .16 | T. | | T. | T. | | | | | 0.58 |
| *California.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aguanga | Coast | | | | | | | | | | | | | | .05 | | | .20 | | | | | .25 | | | .20 | .22 | .65 | .25 | | | | 1.82 |
| Alameda | ...do | | | | | | | | | | | | | .30 | .10 | | .10 | .10 | | .10 | .50 | .10 | .20 | | | | | | .50 | | | | 2.00 |
| Alturas | Sacramento | .01 | | | | | | | | | | | | .03 | | | | | | .03 | .05 | | .07 | .22 | .02 | | | | | | | | 0.43 |
| Anderson | ...do | .01 | | | | | | | | | | | | | T. | | T. | | | 1.19 | .53 | .70 | .28 | .53 | | | .13 | .52 | | | | | 3.89 |
| Angles Camp | San Joaquin | | | | | | | | | | | | | | .12 | | | | .16 | | 1.76 | 1.06 | 1.54 | | | | | .21 | | | | | 4.85 |
| Angiola | ...do | | | | | | | | | | | | | .42 | | | | | | | | .38 | .18 | | | | | .47 | | | | | 1.45 |
| Antioch | ...do | | | | | | | | | | | | | | .42 | | | | | .23 | .38 | | | .12 | | .10 | .08 | .08 | | | | | 1.41 |
| Aptos | Coast | | | | | | | | | | | | | | .84 | .03 | .08 | .28 | | | .42 | .48 | .84 | .42 | | .27 | .03 | .58 | .11 | | | | 4.38 |
| Arrowhead Springs | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Auburn | Sacramento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avalon | Ocean | | | | | | | | | | | | | | .34 | | | | T. | | | | .30 | .11 | | T. | .06 | .80 | .03 | | | | 1.64 |
| Azusa | Coast | | | | | | | | | | | | | | .26 | | | .21 | | | | .12 | .64 | | | .29 | | 1.08 | | | | | 2.60 |
| Bagdad | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Bakersfield | San Joaquin | | | | | | | | | | | | | .32 | | | | | | | | | .21 | .05 | .23 | | | .39 | | | | | 1.20 |
| Barstow | Desert | | | | | | | | | | | | | | | | | T. | | | | | .28 | | | | | .02 | | | | | 0.30 |
| Bear River | San Joaquin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bear Valley (1) | Sacramento | | | | | | | | | | | | | | .15 | | .18 | .10 | 1.38 | 1.74 | 2.00 | .48 | 1.60 | | | | .28 | .10 | | | | | 8.01 |
| Bear Valley (2) | San Joaquin | | | | | | | | | | | | | | .46 | | | | | | | .26 | | | .14 | | | .62 | .61 | | | | 2.09 |
| Bear Valley Dam | Coast | | | | | | | | | | | | | | .12 | | | .20 | | | | | .52 | | | .32 | | 1.47 | | | | | 2.63 |
| Ben Lomond | ...do | | | | | | | | | | | | | | 1.27 | .10 | .20 | | | 1.15 | 1.37 | 2.68 | .47 | | .15 | .35 | 1.00 | | | | | | 8.74 |
| Berkeley | ...do | | | | | | | | | | | | | | .63 | | .02 | .07 | | .74 | .68 | .85 | .17 | | | | | .66 | | | | | 3.82 |
| Big Bar | Sacramento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Biggs | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bishop | Owens | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bishop Creek | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blocksburg | Coast | .25 | | | | | | | | | | | | | .10 | .25 | | | .41 | .27 | .57 | .71 | .51 | .56 | T. | .07 | | .54 | | | | | 4.24 |
| Blue Canyon | Sacramento | | | | | | | | | | | | | | | | | T. | | 1.26 | .95 | 1.70 | .10 | 1.20 | | | | | .67 | | | | 5.88 |
| Blythe | Desert | | | | | | | | | | | | | | | | | | | T. | | | | | | | | T. | .02 | | | | 0.02 |
| Boulder Creek | Coast | | | | | | | | | | | | | | .78 | .43 | .10 | .13 | | | .88 | 1.65 | 3.60 | .62 | | .11 | .23 | 1.76 | .17 | | | | 10.46 |
| Bowmans Dam | Sacramento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Branscomb | Coast | .02 | | | | | | | | | | | | | .24 | | .23 | | T. | .58 | .78 | .99 | .73 | .11 | | | .09 | .72 | | | | | 4.49 |
| Brawley | Desert | | | | | | | | | | | | | | | | | .06 | | | | | | | | | | T. | | | | | 0.06 |
| Brush Creek | Sacramento | | | | | | | | | | | | | | .02 | | | | .37 | .32 | 1.67 | .95 | 1.28 | .69 | .08 | | .16 | .37 | | | | | 5.91 |
| Burney | ...do | | | | | | | | | | | | | | | | | | .35 | | .40 | | | .90 | | | | | | | | | 1.65 |
| Butte Creek House | ...do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Butte Valley | ...do | | | | | | | | | | | | | | | | | .17 | .29 | .30 | | 1.15 | 1.00 | .47 | .60 | .08 | | .10 | .12 | | | | 4.28 |
| Calexico | Desert | | | | | | | | | | | | | | | | | .04 | | | | | | | | | | | | | | | 0.04 |
| Caliente | San Joaquin | | | | | | | | | | | | | | .50 | | | | | | | .20 | | | .44 | .44 | | .75 | | | | | 2.33 |
| Calistoga | Coast | | | | | | | | | | | | | | .31 | | | .11 | | .40 | T. | 1.48 | 1.29 | .52 | | | | | .90 | | | | 5.01 |
| Campbell | ...do | | | | | | | | | | | | | T. | .43 | .06 | .10 | | | .20 | .20 | .53 | .48 | | .08 | .11 | .15 | .33 | | | | | 2.67 |
| Campo | ...do | | | | | | | | | | | | | | | | | .47 | | | | | .10 | | | .75 | | .53 | .40 | | | | 2.25 |
| Camptonville (near) | Sacramento | | | | | | | | | | | | | | .15 | | | .13 | .11 | .62 | 2.51 | 1.15 | 1.03 | 1.35 | .02 | .17 | .18 | .23 | | | | | 7.65 |
| Cedarville | Mountain Lakes | | | | | | | | | | | | | | | | | | | | | T. | .46 | .25 | .03 | .04 | | | | | | | 0.78 |
| Chester | Sacramento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chico | ...do | | | | | | | | | | | | | | | | | | .50 | .33 | 1.03 | .70 | .43 | .12 | .28 | | T. | .23 | | | | | 3.62 |
| Chico (near) | ...do | | | | | | | | | | | | | | T. | | | | .67 | 1.20 | .85 | .78 | .22 | .36 | | | .10 | .16 | | | | | 4.34 |
| China Flat | Coast | | | | | | | | | | | | | T. | .04 | | .12 | | T. | .07 | .16 | T. | .65 | .18 | | T. | .13 | .14 | | | | | 1.49 |
| Chino | ...do | | | | | | | | | | | | | | .25 | | | | .17 | | | | .48 | .48 | | .10 | .11 | | 1.00 | | | | 2.59 |
| Cisco | Sacramento | | | | | | | | | | | | | | | T. | | T. | | | 1.80 | .50 | .30 | 1.10 | | .10 | .30 | .10 | | | | | 4.20 |
| Claremont | Coast | | | | | | | T. | .01 | | | | | | .12 | .02 | | | .24 | .01 | T. | | .50 | .34 | | .08 | .03 | | 1.21 | .01 | | | 2.57 |
| Clear Lake | Klamath | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cloverdale | Coast | | | | | | | | | | | | | | .27 | | .04 | | | 1.28 | .88 | 1.60 | .93 | .05 | | | .28 | .37 | | | | | 6.70 |
| Colfax | Sacramento | | | | | | | | | | | | | | | T. | | .21 | | .80 | 1.30 | 2.50 | .50 | 1.30 | | | | | | | | | 6.61 |
| Colgate | ...do | | | | | | | | | | | | | | | .04 | | .03 | | .47 | 1.22 | 1.38 | .24 | .61 | .08 | | .05 | .26 | .01 | | | | 4.39 |
| Colusa | ...do | | | | | | | | | | | | | | | | | | | .35 | .82 | .98 | .30 | | | | | | .32 | | | | 2.77 |
| Corning | ...do | | | | | | | | | | | | | | | | | | .22 | 1.03 | .55 | .87 | .22 | .15 | | | | .50 | | | | | 3.54 |
| Corona | Coast | | | | | | | | | | | | | .14 | | | | | | | | .49 | | | | | 10 | | .32 | .26 | | | | 1.31 |
| Crockers | San Joaquin | | | | | | .50 | | | | | | | | | | | .08 | 1.76 | | | .30 | 3.96 | | .20 | .05 | T. | | 1.43 | | | | 8.28 |
| Cuyamaca | Coast | | | | | | | | | | | | | | .30 | | | .60 | .20 | | | .10 | .83 | | .18 | 1.48 | .10 | 1.15 | .23 | | | | 5.19 |
| Daunt | San Joaquin | | | | | | | | | | | | | | .65 | | | T. | .29 | | | | .36 | .60 | | .08 | .35 | .60 | .40 | | | | 3.33 |
| Davisville | Sacramento | | | | | | | | | | | | | | .05 | | | | | .02 | .75 | 1.10 | .28 | | | | | .37 | | | | | 2.57 |
| Deer Creek | ...do | | | | | | | | | | | | | | .14 | | | .08 | .07 | 1.30 | 2.98 | .95 | .62 | 1.82 | .05 | .03 | 1.70 | .15 | | | | | 9.85 |
| Delta | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Denair | San Joaquin | | | | | | | | | | | | | .53 | | | | | | .02 | .50 | .50 | .50 | .40 | | | .30 | .20 | .05 | | | | 3.00 |
| Descanso | Coast | | | | | | | | | | | | | | .08 | | | | .23 | .08 | | | | .27 | | | 1.40 | 30 | 1.50 | .15 | | | 4.01 |
| Dinuba | San Joaquin | | | | | | | | | | | | | | .48 | | | | | | | .54 | .13 | | | | | .35 | | | | | 1.50 |
| Dobbins | Sacramento | | | | | | | | | | | | | | .06 | .01 | | .04 | .06 | .43 | 2.00 | .83 | .37 | .46 | T. | T. | .13 | .13 | T. | | | | 4.52 |
| Dorris | Klamath | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Downieville | Sacramento | | | | | | | | | | | | | | T. | | | .09 | .10 | .96 | 2.45 | 1.46 | .97 | 1.15 | .10 | | .30 | .17 | | | | | 7.75 |
| Dudleys | San Joaquin | | | | | | | | | | | | | | .38 | T. | | .05 | .06 | .55 | .27 | .45 | .92 | 1.33 | | .58 | .08 | .08 | .25 | | | | 5.00 |
| Dunnigan | Sacramento | | | | | | | | | | | | | | | | | | | .60 | .70 | | .43 | .03 | | | | .40 | .02 | | | | 2.18 |
| Dunsmuir | ...do | | | | | | | | | | | | | | | | | | .36 | .61 | 1.01 | .32 | .47 | .55 | | | .30 | .74 | | | | | 4.39 |
| Durham | ...do | | | | | | | | | | | | | | | | .68 | | | 1.21 | .46 | .43 | .24 | | | | | .30 | | | | | 3.32 |
| Dyerville | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edgewood | Klamath | | | | | | | | | | | | | | | | | | .12 | .29 | | .46 | .23 | | | | .06 | | | | | .14 | 1.30 |
| Edison | San Joaquin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| El Cajon | Coast | | | | | | | | | | | | | | | | | .06 | | | .02 | .03 | .25 | | | .13 | .33 | .76 | .63 | | | | 2.21 |
| Electra | San Joaquin | | | | | | | | | | | | | | .24 | | | .04 | | .50 | 1.60 | .71 | .60 | .71 | | .03 | T. | T. | .13 | | | | 4.58 |
| Elsinore | Coast | | | | | | | | | | | | | | | | | | | | | | .31 | | | | | .88 | | | | | 1.19 |
| Emigrant Gap | Sacramento | | | | | | | | | | | | | | | .02 | | | 1.40 | | .80 | .40 | 1.10 | .40 | | | .10 | | | | | | 4.22 |
| Escondido | Coast | | | | | | | | | | | | | | | | | | | .11 | .10 | | .30 | | | .15 | .10 | .72 | .34 | | | | 1.82 |
| Eureka | ...do | .01 | | | .06 | .03 | | | | | | | | | | | .25 | .01 | .15 | .14 | .26 | .16 | .65 | .18 | .01 | | .02 | .04 | | | | | 1.97 |
| Fairmont | ...do | | | | | | | | | | | | | | .07 | | | | .68 | | | 1.14 | .05 | | | .53 | | 1.00 | | | | | 3.47 |
| Farmington | San Joaquin | | | | | | | | | | | | | | .30 | .06 | | | | .51 | .58 | .49 | 1.02 | .44 | | T. | .17 | .05 | .08 | | | | 3.70 |
| Felton | Coast | | | | | | | | | | | | | | .74 | .35 | .10 | .15 | | .05 | .61 | .97 | 2.23 | .39 | | .12 | .19 | 1.40 | .17 | | | | 7.47 |
| Firebaugh | San Joaquin | | | | | | | | | | | | | | .52 | | | .10 | | | | | .24 | .06 | | | | | .08 | | | | 1.00 |
| Folsom | Sacramento | | | | | | | | | | | | | | | | | .04 | T. | .18 | .90 | .66 | .86 | .86 | | T. | T. | .04 | .01 | | | | 3.55 |
| Fordyce Dam | ...do | | | | | | | | | | | | | | .05 | | | .10 | .40 | 1.96 | 2.18 | T. | 1.15 | 1.00 | T. | T. | .18 | .40 | | | | | 7.42 |
| Fort Bragg | Coast | | | | | | | | | | | | | | .19 | | | | .46 | .34 | .61 | .50 | .42 | | | | 1.42 | .10 | | | | | 4.04 |
| Fort Ross | ...do | | | | | | | | | | | | | | .44 | | .08 | | .01 | 1.05 | .51 | 2.55 | .98 | .10 | | | .38 | 1.24 | | | | | 7.34 |
| Fouts Springs | Sacramento | | | | | | | | | | | | | | .12 | | .16 | | | .32 | .67 | 2.32 | T. | | | T. | .19 | 1.21 | | | | | 4.99 |
| Fredalba | Coast | | | | | | | | | | | | | | .09 | .02 | | .02 | .02 | | | | .84 | | | .89 | .21 | 1.90 | .30 | | | | 4.29 |
| Fresno | San Joaquin | | | | | | | | | | | | | | .22 | T. | .06 | | | .03 | | .44 | | .02 | | .33 | | .18 | | | | | 1.28 |
| Fruto | Sacramento | | | | | | | | | | | | | | | T. | | | | .20 | .50 | 1.50 | 1.70 | | .25 | | | .80 | .20 | | | | 5.15 |
| Galt | San Joaquin | | | | | | | | | | | | | | .07 | | | | | 1.00 | .20 | 1.00 | .25 | | | | | | | | | | 2.52 |
| Georgetown | ...do | | | | | | | | | | | | | .01 | | .05 | | .12 | | .59 | 1.74 | 2.08 | .72 | 1.50 | .01 | | .01 | .02 | .01 | | | | 6.86 |
| Gilroy | Coast | | | | | | | | | | | | | | .40 | .05 | .04 | .05 | | | .53 | .16 | .80 | .22 | | .30 | .10 | .22 | .20 | | | | | 3.07 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 11*—Continued.

| Stations | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *California*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gilta | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glendora | ....do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glen Ranch | ....do | | | | | | | | | | | | | | .09 | .04 | | | .10 | | | | .44 | .04 | | | .05 | | 1.36 | | | | 2.12 |
| Glennville | San Joaquin | | | | | | | | | | | | | | .16 | | | | .14 | | | | .14 | .26 | | .27 | | 2.06 | | | | 3.03 |
| Glenwood | Coast | | | | | | | | | | | | | .74 | .32 | | .54 | | | .94 | 1.40 | 1.93 | .42 | | T. | .39 | 1.00 | .32 | | | | 8.00 |
| Gold Run | Sacramento | | | | | | | | | | | | | | | .10 | | T. | | .90 | 1.95 | 1.35 | .60 | 1.40 | .15 | | .20 | T. | T. | | | | 6.65 |
| Gonzales | Coast | | | | | | | | | | | | | | .25 | | .02 | | .03 | | | .45 | .02 | .83 | .15 | | .10 | | .33 | .10 | | | 2.28 |
| Grass Valley | Sacramento | | | | | | | | | | | | | | .09 | | | 2.15 | | .55 | 2.41 | .95 | .85 | 1.06 | T. | T. | .20 | .07 | T. | | | | 6.33 |
| Greenville | ....do | | | | | | | | | | | | | | | | | | .27 | .68 | 1.34 | .73 | .24 | .58 | T. | T. | T. | .14 | | | | | 3.98 |
| Gridley | ....do | | | | | | | | | | | | | | | | | | .06 | .05 | 1.20 | .70 | .65 | .05 | | | | .10 | | | | | 2.81 |
| Groveland | San Joaquin | | | | | | | | | | | | | | .24 | T. | | .07 | T. | .85 | .43 | .90 | .48 | .99 | | .45 | .13 | .07 | .22 | | | | 4.83 |
| Guinda | Sacramento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hanford | San Joaquin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ‡1.66 |
| Head Dam | Sacramento | | | | | | | | | | | | | | .11 | | | .11 | .06 | .68 | 2.16 | .87 | .55 | .70 | | | .30 | .13 | | | | | 5.67 |
| Healdsburg | Coast | | | | | | | | | | | | | | .33 | .02 | .03 | | | .73 | .37 | 1.37 | .75 | .02 | | | .18 | 1.25 | | | | | 5.05 |
| Hearst | ....do | | | | | | | | | | | | | | .30 | | | | | .50 | .45 | .55 | .80 | .20 | .10 | .10 | .52 | .02 | | | | | 3.54 |
| Heber | Desert | | | | | | | | | | | | | | | | | .04 | | | | | | | | | | | | | | | 0.04 |
| Helen Mine | Coast | | | | | | | | | | | | | | .55 | | .09 | | | 1.82 | .66 | 1.60 | 1.50 | .35 | | .03 | .18 | 1.45 | | | | | 8.23 |
| Hesperia | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Holcomb | Coast | | | | | | | | | | | | | | | .02 | | .09 | .13 | T. | | | .09 | T. | | | | .90 | .07 | | | | 1.30 |
| Hollister | ....do | | | | | | | | | | | | | | .36 | .02 | .06 | .04 | | | .30 | .12 | .46 | .42 | | .17 | .10 | .15 | .05 | | | | 2.25 |
| Hornbrook | ....do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Hot Springs | San Joaquin | | | | | | | | | | | | | | .82 | .04 | .05 | .14 | | | | | .29 | .05 | | | .38 | | .60 | | | | 2.37 |
| Hullville | Coast | | | | | | | | | | | | | | .17 | | .03 | | | .65 | .58 | .87 | .38 | .10 | .02 | | .11 | .43 | | | | | 3.34 |
| Idyllwild | ....do | | | | | | | | | | | | | | .20 | | | .40 | .05 | | | | .27 | | | .28 | .22 | .87 | .79 | | | | 3.08 |
| Independence | Owens | | | | | | | | | | | | | | .08 | | | | | | | | | | | | | .02 | | | | | 0.10 |
| Indio | Desert | | | | | | | | | | | | | | | | | T. | .08 | | | | | | | | | T. | | | | | 0.08 |
| Inskip | Sacramento | | | | | | | | | | | | | | T. | | T. | T. | .65 | .60 | 1.44 | 1.33 | 1.74 | 1.14 | .40 | T. | .64 | .24 | | | | | 8.18 |
| Ione | San Joaquin | | | | | | | | | | | | | | | | | | | .43 | 1.25 | .70 | 1.00 | .50 | | | .05 | | | | | | 3.43 |
| Iowa Hill | Sacramento | | | | | | | | | | | | | | .04 | | T. | | .08 | 1.16 | 2.37 | 1.20 | .68 | 1.54 | .09 | T. | | .16 | | | | | 7.32 |
| Isabella | San Joaquin | | | | | | | | | | | | | | .24 | | | T. | | | | .15 | | | | .05 | | .29 | | | | | 0.73 |
| Jacksonville | ....do | | | | | | | | | | | | | | | .10 | | .06 | | .28 | .36 | .42 | 1.34 | .62 | | .10 | .06 | | .28 | | | | 3.62 |
| Jamestown | ....do | | | | | | | | | | | | | | .20 | | | | | .23 | .85 | .55 | .85 | 1.10 | | .10 | | | .40 | | | | 4.28 |
| Jenny Lind | ....do | | | | | | | | | | | | | | .15 | | | | .05 | .18 | .52 | .62 | 1.15 | .70 | | | .20 | | .02 | | | | 3.59 |
| Johnsville | Mountain Lakes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jolon | Coast | | | | | | | | | | | | | | .69 | | .06 | | | | .78 | .55 | 1.28 | .50 | | | | .60 | | | | | 4.47 |
| Julian | ....do | | | | | | | | | | | | | | .30 | | | | .50 | | | | | .35 | | | | | 1.00 | | | | 2.15 |
| Kennedy Mine | San Joaquin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ‡3.59 |
| Kennett | Sacramento | | | | | | | | | | | | | | | | | | .68 | 1.26 | .60 | 1.70 | .70 | .80 | | .10 | .44 | | | | | | 6.40 |
| Kentfield | Coast | | | | | | | | | | | | | | .35 | | .05 | | 1.21 | .19 | 1.87 | 1.14 | .09 | | | | | 1.13 | | | | 6.03 |
| Kernville | San Joaquin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| King City | Coast | | | | | | | | | | | | | | .45 | .05 | .09 | | | T. | .33 | .16 | .80 | .07 | | T. | .03 | .34 | .22 | | | | 2.54 |
| Knights Landing | Sacramento | | | | | | | | | | | | | | | T. | | | | T. | .98 | .72 | 1.08 | .06 | | | | .16 | .10 | | | | 3.10 |
| Knob | ....do | | | | | | | | | | | | | .79 | 1.02 | .45 | .31 | 1.24 | .96 | 2.09 | .03 | | 1.04 | .24 | .26 | .39 | .09 | | | T. | .12 | | 9.09 |
| La Grange | San Joaquin | | | | | | | | | | | | | | .22 | | | | .11 | | .35 | 1.08 | .12 | .40 | | .12 | | .11 | | | | | 2.51 |
| Lake Eleanor | ....do | .14 | | | | | | | | | | | | | .08 | | | .09 | .16 | 1.04 | .43 | .06 | .91 | 1.65 | | | | .06 | .08 | | | | 4.70 |
| Lakeside | Coast | | | | | | | | | | | | | | | | | | | | | | | | | 1.37 | | .67 | .30 | | | | 2.34 |
| La Porte | Sacramento | .04 | | | | | | | | | | | | | .03 | T. | | .11 | .37 | 1.23 | 2.34 | 1.20 | 1.09 | 1.20 | .03 | T. | .29 | .19 | | | | | 8.12 |
| Lathrop | San Joaquin | | | | | | | | | | | | | | .44 | .16 | | .06 | | .04 | .36 | .16 | .88 | .54 | | | | .04 | .04 | | | | 2.72 |
| Laurel | Coast | | | | | | | | | | | | | | .80 | .25 | .10 | | | .45 | 1.30 | 1.45 | 1.85 | .45 | | .15 | .25 | .85 | .30 | | | | 8.20 |
| Laytonville | ....do | | | | | | | | | | | | | | | .29 | | | .28 | .50 | .77 | .42 | .32 | | | .94 | | | | | | | 3.52 |
| Le Grand | San Joaquin | | | | | | | | | | | | | .50 | | | | | .10 | | | .90 | .30 | .08 | | T. | | | | | | | 1.88 |
| Lemon Cove | ....do | | | | | | | | | | | | | .82 | | | | T. | T. | | | .52 | T. | .26 | | | | .37 | | | | | 1.97 |
| Letter Box | Sacramento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lick Observatory | Coast | | | | | | | | | | | | | | | .91 | .02 | .01 | | | | | | 1.94 | | .09 | .01 | | .30 | | | | 3.28 |
| Livermore | ....do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lodi | San Joaquin | | | | | | | | | | | | | | .23 | | | | T. | .15 | .53 | .94 | .20 | .28 | | .14 | | .06 | | | | | 2.53 |
| Lone Pine | Owens | | | | | | | | | | | | | | .38 | | | | | | | | | | | | | .15 | .10 | | | | 0.63 |
| Long Camp | San Joaquin | | | | | | | | | | | | | | .10 | | .04 | | .40 | 1.40 | .42 | .70 | .81 | 1.25 | | .14 | .10 | .35 | .15 | | | | 5.86 |
| Long Valley | Mountain Lakes | | | | | | | | | | | | | T. | .25 | .01 | .08 | | .04 | .01 | .21 | | | .12 | | .05 | | .66 | | | | | 0.83 |
| Lordsburg | Coast | | | | | | | | | | | | | | .19 | | | | | | | | .91 | | | | | | 1.52 | | | | 2.62 |
| Los Alamos | ....do | | | | | | | | | | | | | | .70 | | | .15 | | | | 1.03 | .43 | .10 | | .22 | T. | 1.45 | .10 | | | | 4.18 |
| Los Angeles | ....do | | | | | | | | | | | | | | .22 | .03 | | T. | | T. | | .50 | .19 | | | T. | T. | .92 | | | | | 1.86 |
| Los Banos | San Joaquin | | | | | | | | | | | | | | .45 | .45 | | | | | .30 | .35 | .20 | | | | | .28 | | | | | 2.03 |
| Los Burros Mine | Coast | | | | | | | | | | | | | .02 | .87 | | .22 | | | 1.21 | 2.31 | 2.80 | .96 | .43 | | .68 | 1.02 | .36 | | | | | 10.88 |
| Los Gatos | ....do | | | | | | | | | | | | | .45 | | | .06 | .15 | | .35 | .35 | 1.42 | .25 | | .06 | .33 | .10 | .77 | | | | | 4.28 |
| Los Vaqueros | ....do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lowe Observatory | ....do | | | | | | | | | | | | | | | .20 | | .20 | | | | | 1.47 | | .13 | | | | 1.80 | | | | 3.80 |
| Lytle Creek | ....do | | | | | | | | | | | | | | .18 | | | .08 | | | | | .76 | | | .10 | | 1.40 | .26 | | | | 2.78 |
| McCloud | Sacramento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Macdoel | Klamath | .11 | | | | | | | | | | | | | | | | | | | .15 | .08 | | | | | | | | | | | 0.34 |
| Madeline | Mountain Lakes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Magalia | Sacramento | | | | | | | | | | | | | | T. | | T. | .28 | .62 | 1.58 | 1.43 | 2.02 | 1.11 | .16 | | | .90 | T. | | | | | 8.10 |
| Mammoth Tank | Desert | | | | | | | | | | | | | | | | | .01 | .06 | | | | | | | | | | | | | | 0.07 |
| Mariposa | San Joaquin | | | | | | | | | | | | | | .33 | .04 | | | | .46 | .11 | | 1.04 | 1.02 | | .11 | .18 | .30 | | | | | 3.59 |
| Marysville | Sacramento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mecca | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| Melones | San Joaquin | | | | | | | | | | | | | | T. | .20 | | .07 | | .20 | .80 | .82 | 2.02 | 1.80 | | T. | .08 | | .38 | | | | 6.37 |
| Menlo Park | Coast | | | | | | | | | | | | | | .53 | | T. | .11 | | T. | T. | .68 | .22 | .05 | | | | .90 | | | | | 2.49 |
| Merced | San Joaquin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Merced Falls | ....do | | | | | | | | | | | | | | .08 | T. | .04 | | .14 | .08 | .03 | .91 | .51 | | .11 | .14 | T. | .12 | | | | | 2.29 |
| Mesa Grande | Coast | | | | | | | | | | | | | .13 | .10 | | | .28 | | | | | .22 | | | .66 | .86 | .70 | 1.10 | | | | 3.92 |
| Mill Creek (1) | San Joaquin | | | | | | | | | | | | | | .06 | | | .05 | | .52 | 2.68 | .54 | .68 | 1.30 | | .04 | .03 | .01 | .03 | | | | 5.94 |
| Mill Creek (2) | Coast | | | | | | | | | | | | | | .12 | | | .01 | | | | | .55 | | .01 | .57 | .07 | .96 | .75 | | | | 3.04 |
| Mills College | ....do | | | | | | | | | | | | | | .60 | .02 | .01 | .10 | | .50 | .09 | .79 | .32 | .02 | | .32 | .03 | .57 | | | | | 3.37 |
| Milo | San Joaquin | | | | | | | | | | | | | | 1.34 | | | | | | | | 50 | 1.31 | | | | | | | | | 3.15 |
| Milton (near) | ....do | | | | | | | | | | | | | | .10 | T. | T. | | .25 | T. | 1.10 | 1.30 | .30 | .32 | | .10 | | .03 | | | | | 3.50 |
| Modesto | ....do | | | | | | | | | | | | | | .60 | | | | .25 | | | .85 | .70 | .40 | | | | | | | | | 2.80 |
| Mojave | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mokelumne Hill | San Joaquin | | | | | | | | | | | | | | .16 | | .04 | | .33 | .69 | 1.15 | 1.16 | .80 | | | .67 | | .09 | | | | | 5.09 |
| Mono Ranch | Coast | | | | | | | | | | | | | | .50 | | | | | | | .82 | .88 | | | .13 | T. | 1.25 | | | | | 3.58 |
| Montague | Klamath | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monterey | Coast | | | | | | | | | | | | | | .39 | | .03 | | | | .22 | .11 | .65 | .30 | | | | 1.22 | .21 | | | | 3.13 |
| Monterio | San Joaquin | | | | | | | | | | | | | | | | | | | | | .30 | .15 | | | .15 | .15 | .35 | .10 | | | | 1.25 |
| Montgomery Creek | Sacramento | .19 | | | | .35 | | | | | | | | .15 | | | | | .31 | .86 | .67 | .48 | .76 | 1.21 | | | | .56 | | | | | 5.39 |
| Monumental | Coast | .15 | | | .19 | | | | | | | | | | | .02 | T. | T. | .90 | .30 | T. | .68 | .50 | .48 | | | | | | | | | 3.22 |
| Morena Dam | ....do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mount Tamalpais | ....do | | | | | | | | | | | | | | .25 | T. | .06 | .01 | .01 | .79 | .21 | .86 | .57 | .01 | | T. | .22 | .35 | | | | | 3.35 |
| Mount St. Helena | ....do | | | | | | | | | | | | | .01 | .33 | | .10 | | | | 1.55 | | 1.90 | .75 | | | | .75 | | | | | 5.38 |
| Napa City | ....do | | | | | | | | | | | | | | .54 | | .04 | T. | | .46 | 1.12 | .90 | .43 | .05 | | .05 | T. | .50 | | | | | 4.09 |
| Napa (S. H.) | ....do | | | | | | | | | | | | | | .50 | .02 | .05 | | .02 | .06 | .80 | .61 | .94 | .05 | | T. | | .46 | .08 | | | | 3.59 |
| Needles | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | .11 | | | | 0.11 |
| Nellie | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nevada City | Sacramento | | | | | | | | | | | | | | .04 | | | .12 | T. | .59 | 2.64 | .96 | .71 | 1.16 | .01 | .02 | .22 | .14 | | | | | 6.61 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 11*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *California*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Newcastle | Sacramento | | | | | | | | | | | | | | .08 | | | .05 | .46 | | 1.72 | .70 | .49 | .73 | .05 | | .02 | .06 | | | | | 4.36 |
| Newhall | Coast | | | | | | | | | | | | | .35 | | | | | | | | .93 | .19 | | | | | 1.08 | | | | | 2.55 |
| Newman | San Joaquin | | | | | | | | | | | | | | .40 | .02 | | .41 | | .11 | .44 | | .59 | .26 | | | .10 | .24 | .03 | | | | 2.60 |
| Nimshew | Sacramento | | | | | | | | | | | | | | .02 | | | .10 | .40 | .70 | 1.25 | 1.15 | 1.31 | .68 | .22 | | .22 | .71 | | | | | 6.76 |
| North Bloomfield | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| North Fork | San Joaquin | | | | | | | | | | | | | | .55 | T. | T. | | .05 | | .02 | .41 | .82 | .47 | | .05 | | .32 | | | | | 2.69 |
| North Lakeport | Coast | | | | | | | | | | | | | | .15 | .06 | .03 | | | 1.05 | .85 | .29 | .16 | | | | .96 | .08 | | | | | 3.63 |
| Oakdale | San Joaquin | | | | | | | | | | | | | | .20 | .05 | | .03 | | .37 | .40 | .47 | 1.11 | .58 | | | | .09 | .08 | | | | 3.28 |
| Oak Grove | Coast | | | | | | | | | | | | | | .03 | | | .16 | .01 | | | | .14 | | | .64 | | 1.05 | | | | | 2.03 |
| Oakland | do | | | | | | | | | | | | | | .65 | | .04 | .08 | | .77 | .19 | .83 | .37 | .04 | | T. | T. | .69 | | | | | 3.66 |
| Oakville | do | | | | | | | | | | | | | | .25 | .06 | | | | .18 | .82 | .64 | 1.14 | .18 | | | .48 | .50 | .36 | | | | 4.63 |
| Oceanside | do | | | | | | | | | | | | | | .20 | | | .03 | | .04 | .07 | .41 | | | | .03 | T. | .98 | T. | | | | 1.76 |
| Ojai Valley | do | | | | | | | | | | | | | | .50 | | | | | | | .83 | .09 | .04 | | .04 | | 1.34 | | | | | 2.84 |
| Orland | Sacramento | | | | | | | | | | | | | | | | | .01 | .14 | .82 | .83 | 1.00 | .03 | .07 | | | .50 | | | | | | 3.40 |
| Orleans | Klamath | | | | | .02 | | | | | | | | | | .05 | .03 | .01 | .07 | .20 | .01 | .16 | .35 | | | | | | | | | | 0.90 |
| Oroville | Sacramento | | | | | | | | | | | | | | | | | | T. | 1.30 | .70 | .57 | .10 | .05 | | | | | | | | | 2.72 |
| Ozena | Coast | | | | | | | | | | | | | | .35 | | | | | | | 1.10 | | | | | | .80 | | | | | 2.25 |
| Palermo | Sacramento | | | | | | | | | | | | | | | | | | .25 | | 1.05 | .95 | .35 | | | | .15 | | | | | | 2.75 |
| Palm Springs | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | | T. |
| Parkfield | Coast | | | | | | | | | | | | | | .63 | | .21 | .12 | | .13 | | .49 | .07 | .20 | | | | .69 | | | | | 2.54 |
| Pasadena | do | | | | | .01 | .01 | | | | | | .01 | | .22 | | | .41 | .02 | | | | .73 | | | .04 | | .95 | .16 | | | | 2.56 |
| Paso Robles | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peachland | do | | | | | | | | | | | | | | .62 | .02 | .03 | | T. | 1.24 | .40 | 1.12 | 1.06 | .02 | | T. | .10 | 1.18 | | | | | 5.79 |
| Penstock Camp | San Joaquin | | | | | | | | | | | | | .15 | .25 | .02 | | | .98 | .50 | .37 | 1.31 | 1.40 | | | .13 | .07 | .50 | | | | | 5.68 |
| Peyton | Sacramento | | | | | | | | | | | | | .54 | .26 | | .05 | | | .48 | .36 | .48 | | | | | | .64 | | | | | 2.81 |
| Phoenix Dam | San Joaquin | | | | | | | | | | | | | | .10 | | | .03 | | .61 | .71 | .64 | .57 | 1.18 | | .13 | | .03 | .42 | | | | 4.72 |
| Pilot Creek | Sacramento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pine Crest | Coast | | | | | | | | | .03 | | | .02 | .64 | | .01 | | .02 | .06 | 1.01 | .42 | .27 | | .12 | | | 1.56 | | | | | 4.16 |
| Pittville | Sacramento | | | | | | | | | | | | | | | | | | | .30 | .30 | .40 | | | | | | | | | | | 1.00 |
| Placerville | do | | | | | | | | | | | | | | | | | .17 | | .82 | 1.47 | 1.62 | .63 | .91 | | | | .14 | | | | | 5.76 |
| Point Lobos | Coast | | | | | | | | | | | | | | .53 | .03 | .05 | .03 | .04 | .55 | .04 | .83 | .15 | .06 | | | T. | 1.07 | T. | | | | 3.38 |
| Point Loma | do | .01 | | | | .03 | | | | | | | | | .02 | .01 | | | .02 | T. | 01 | .01 | .56 | | | .01 | .24 | .02 | .39 | .02 | | | 1.35 |
| Point Reyes | do | | | | | | | | | | | | | .09 | .19 | | .05 | | .13 | .50 | .26 | .95 | 1.03 | | | | .43 | .39 | | | | | 4.02 |
| Pollasky | San Joaquin | | | | | | | | | | | | | | .38 | .08 | | .07 | | .05 | | | .52 | .12 | | | | | | | | | 1.22 |
| Porterville | do | | | | | | | | | | | | | | .68 | | | | | | | .38 | | .18 | | .19 | | .40 | .13 | | | | 1.96 |
| Priest Valley | Coast | | | | | | | | | | | | | | .83 | .06 | .16 | | | T. | .14 | .36 | 1.21 | .26 | | | .13 | .33 | | | | | 3.48 |
| Quincy | Sacramento | | | | | | | | | | | | | | | | | | .31 | .61 | 1.45 | .05 | .05 | .05 | | | | T. | | | | | 2.52 |
| Red Bluff | do | | | | | | | | | | | | | | T. | T. | T. | | T. | 1.32 | .42 | .70 | .44 | | | | 16 | .32 | | | | | 3.36 |
| Redding | do | | | | .32 | | | | | | | | | | T. | | T. | T. | T. | 1.21 | .45 | 1.87 | | .25 | .08 | | 16 | | .43 | | | | 4.77 |
| Redlands | Coast | | | | | | | | | | | | | | | .10 | | | | T. | | | .33 | .10 | | .10 | .04 | .41 | .47 | | | | 1.57 |
| Reedley | San Joaquin | | | | | | | | | | | | | | .44 | | | | | | | .45 | .06 | .26 | | | | .31 | | | | | 1.52 |
| Represa | Sacramento | | | | | | | | | | | | | | | | | | | .29 | 1.04 | .65 | .95 | .94 | | | | | | | | | 3.87 |
| Rialto (near) | Coast | | | | | | | | | | | | | | .16 | | | .11 | | | | T. | .61 | | | .09 | .05 | 1.21 | .64 | | | | 2.87 |
| Rio Vista | Sacramento | | | | | | | | | | | | | | .30 | .06 | T. | | | | .48 | .40 | .88 | .16 | | | .02 | .46 | .14 | | | | 2.90 |
| Riverside | Coast | | | | | | | | | | | | | | .18 | | | | | | | | .37 | | | .11 | .13 | .94 | | | | | 1.73 |
| Rocklin | Sacramento | | | | | | | | | | | | | | T. | | | | | .05 | .20 | 1.05 | .40 | .70 | | | | .12 | | | | | 2.52 |
| Rohnerville | Coast | | | | | | | | | | | | | | | | .48 | | | .18 | .20 | .50 | .30 | .51 | .27 | | .20 | | | | | | 2.64 |
| Round Valley | Owens | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sacramento (1) | Sacramento | | | | | | | | | | | | | | .01 | | T. | | .03 | .60 | .97 | 1.26 | .04 | .01 | | T. | T. | .14 | | | | | 3.06 |
| Sacramento (2) | do | | | | | | | | | | | | | | .02 | | T. | | .07 | .53 | 1.08 | 1.56 | .04 | | | | T. | .21 | | | | | 3.51 |
| Saint Helena | Coast | | | | | | | | | | | | | | .30 | | | | | .32 | .74 | .86 | 1.15 | .21 | | | | .68 | .20 | | | | 4.46 |
| Salinas | do | | | | | | | | | | | | | | .34 | | | | | | .34 | | .51 | .24 | | .12 | | | | | | | 1.55 |
| San Bernardino | do | | | | | | | | | | | | | | .08 | | | T. | | | | | .34 | | | .08 | .01 | .64 | .43 | | | | 1.58 |
| San Diego | do | | | | | | | | | | | | | | T. | | | .01 | | T. | .02 | | .47 | | | .13 | .04 | .56 | .07 | | | | 1.30 |
| San Francisco | do | | | | | | | | | | | | | | .61 | .01 | .03 | 01 | T. | .75 | .28 | 1.06 | .23 | | | .01 | .26 | .53 | | | | | 3.78 |
| San Jacinto | do | | | | | | | | | | | | | | .44 | .08 | | .08 | | | | | .36 | | | .15 | | .60 | .60 | | | | 2.29 |
| San Jose | do | | | | | | | | | | | | | | .47 | .01 | .05 | .02 | | .38 | .22 | .82 | .19 | | .01 | .27 | .01 | .39 | | | | | 2.84 |
| San Leandro | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| San Luis Obispo | do | | | | | | | | | | | | | .04 | .88 | T. | .16 | .01 | | T. | .12 | 1.34 | .02 | .10 | | .16 | | .98 | .01 | | | | 3.82 |
| San Mateo | do | | | | | | | | | | | | | | .50 | .46 | .05 | .06 | | .07 | .44 | .37 | .60 | .14 | | | | .94 | .18 | | | | 3.78 |
| San Miguel | do | | | | | | | | | | | | | | .73 | .02 | | .03 | | | | | .71 | .07 | | .05 | .05 | .47 | .23 | | | | 2.36 |
| San Miguel Island | Ocean | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sanger | San Joaquin | | | | | | | | | | | | | | | | | | | | | | .05 | .10 | | | | | | | | | 0.15 |
| Santa Ana River | Coast | | | | | | | | | | | | | | .18 | | | | | | | | .63 | | T. | .91 | .07 | .63 | .88 | | | | 3.30 |
| Santa Barbara | do | | | | | | | | | | | | | | .63 | .02 | .01 | | | .01 | | .74 | .48 | .02 | | .25 | | 1.46 | | | | | 3.62 |
| Santa Clara | do | | | | | | | | | | | | | | .63 | .02 | .03 | .10 | | .24 | .60 | .69 | .08 | .17 | .01 | .24 | .03 | .46 | | | | | 3.30 |
| Santa Cruz | do | | | | | | | | | | | | | 1.75 | .30 | .10 | | | | .50 | .55 | 1.10 | .35 | | .30 | .20 | 1.20 | .15 | | | | | 6.50 |
| Santa Margarita | do | | | | | | | | | | | | | 1.05 | | | | | | | .08 | T. | 1.75 | .10 | | | | .10 | | | | | 3.08 |
| Santa Maria | do | | | | | | | | | | | | | | .58 | | | .26 | | | | 1.12 | .08 | .38 | | | | 1.30 | | | | | 3.82 |
| Santa Monica | do | | | | | | | | | | | | | | .23 | T. | | | | | | | .50 | .23 | | | | 1.06 | .07 | | | | 2.09 |
| Santa Rosa | do | | | | | | | | | | | | | | .42 | | | | | .58 | .26 | .82 | 1.05 | .06 | | .03 | .05 | .90 | | | | | 4.17 |
| Sausalito | do | | | | | | | | | | | | | | | | .49 | | | | | 1.94 | .28 | | | | .02 | | | | | 3.63 |
| Selma | San Joaquin | | | | | | | | | | | | | | .34 | | | .13 | | | | | .34 | .04 | | | | .24 | | | | | 1.09 |
| Seven Oaks | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shasta | Sacramento | | | | | | | | | | | | | | .12 | | | 1.54 | .89 | 62 | .80 | | .31 | .27 | | .85 | .44 | | | | | .09 | 5.93 |
| Shingle Springs | San Joaquin | | | | | | | | | | | | | | | | | | | .52 | 2.70 | 1.20 | 1.10 | | | | | .31 | | | | | 5.83 |
| Sierra Madre | Coast | | | | | | | | | | | | | | .25 | | | .23 | | | | | 1.09 | | | .11 | | 1.43 | | | | | 3.11 |
| Sierraville | Mountain Lakes | | | | | | | | | | | | | | | | | | | .70 | .80 | | | .90 | | | | .75 | | | | | 3.15 |
| Sisquoc Ranch | Coast | | | | | | | | | | | | | .86 | | | | | | | | 1.05 | | .23 | | 1.25 | | .75 | | | | | 4.14 |
| Sisson | Sacramento | | | | | | | | | | | | | | | | | .22 | .86 | .72 | .21 | .05 | .40 | .20 | | .10 | .60 | | | | | | 3.36 |
| Soledad | Coast | | | | | | | | | | | | | | | .39 | .07 | | .05 | .28 | .07 | .80 | 10 | | | | .40 | .07 | | | | | 2.23 |
| Sonora | San Joaquin | | | | | | | | | | | | | | .25 | T. | | | | .30 | .81 | .40 | 85 | 1.14 | | .06 | | .07 | .35 | | | | 4.33 |
| Southeast Farallon | Ocean | T. | T. | | | | | | | | | | | .12 | .27 | | .10 | | | .42 | .04 | 1.19 | .45 | | | | .59 | .30 | | T. | T. | | 3.49 |
| Spreckels | Coast | | | | | | | | | | | | | | .27 | | | .16 | | | .37 | .13 | .59 | .31 | | | | .67 | .19 | | | | 2.69 |
| Squirrel Inn | do | | | | | | | | | | | | | | .10 | | | .10 | | | | | .74 | T. | T. | 1.10 | .21 | 2.30 | | | | | 4.55 |
| Stirling City | Sacramento | | | | | | | | | | | | | | | | | | | .80 | 1.20 | .80 | 1.40 | 1.00 | .10 | T. | .10 | .60 | T. | | | | 6.00 |
| Stockton (S. H.) | San Joaquin | | | | | | | | | | | | | | .50 | | | .03 | | | .59 | .65 | .36 | .34 | | .14 | | | .05 | | | | 2.66 |
| Storey | do | | | | | | | | | | | | | | .65 | | | | | | | .75 | | | | | | | | | | | 1.40 |
| Suisun | Sacramento | | | | | | | | | | | | | | .33 | .12 | .05 | | | T. | .57 | .63 | .95 | .05 | | .37 | | | | | | | 3.07 |
| Summerdale | San Joaquin | | | | | | | | | | | | | | .34 | | | .09 | | .20 | .17 | .30 | 1.14 | .98 | | .05 | .02 | .24 | .13 | | | | 3.66 |
| Summit (1) | Sacramento | | | | | | | | | | | | | | | | | | .78 | .10 | 1.90 | .60 | .30 | .50 | .40 | .10 | .20 | .10 | | | | | 4.98 |
| Summit (2) | Coast | | | | | | | | | | | | | | .12 | | | | | | | | | .77 | | | | .57 | | | | | 1.46 |
| Surrey | do | | | | | | | | | | | | | | .17 | | | .15 | | | | | .87 | .39 | | .25 | | 1.07 | | | | | 2.90 |
| Susanville | Mountain Lakes | | | | | | | | | | | | | | | | | | .09 | .07 | .57 | .03 | .22 | | .10 | .07 | .05 | | | | | | 1.20 |
| Tamarack | Sacramento | | | | | | | | | | | | | | .22 | .12 | | | | .45 | .67 | .41 | .90 | | .18 | .12 | .11 | .19 | | | | | 3.37 |
| Tehachipi | San Joaquin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tehama | Sacramento | | | | | | | | | | | | | | | | | | T. | .09 | 1.00 | .62 | .76 | .40 | .03 | | | .33 | | | | | 3.23 |
| Three Rivers | San Joaquin | | | | | | | | | | | | | | .58 | | | T. | T. | .C1 | | | .50 | .40 | | .03 | .06 | .39 | .05 | | | | 2.02 |
| Towle | Sacramento | | | | | | | | | | | | | .12 | .08 | | | | .88 | 1.78 | 1.58 | .46 | | 1.03 | | | | | .81 | .10 | | | | 6.84 |
| Tracy | San Joaquin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tulare | do | | | | | | | | | | | | | | .75 | | | | | | | | .42 | .38 | | | .04 | .31 | .04 | | | | 1.94 |
| Tustin (near) | Coast | | | | | | | | | | | | | | .04 | | | | | | | | .54 | .03 | | .06 | T. | | .84 | | | | 1.56 |
| Ukiah | do | | | | | | | | | | | | | | .16 | | .03 | | | .55 | .40 | | | | | | .20 | 1.26 | | | | | 2.60 |
| Upland | do | | | | | | | | | | | | | | .12 | | | | | | | | .81 | | | .12 | | 1.30 | | | | | 2.35 |

TABLE 2—*Daily precipitation for March, 1910. District No. 11*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *California*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Upper Lake | Coast | | | | | | | | | | | | | | .20 | | .03 | | | .77 | .65 | .67 | .46 | .09 | | | .07 | .43 | | | | | 3.43 |
| Upper Matole | ...do | .12 | | | | .02 | | | | | | | | T. | | | | .26 | .08 | .89 | .12 | .83 | .57 | .67 | | | .02 | .70 | | | | | 4.28 |
| Vacaville | Sacramento | | | | | | | | | | | | | .16 | 3.19 | | | | | .30 | .65 | 1.10 | .11 | | | .13 | .53 | .15 | | | | | 6.82 |
| Valley Springs | San Joaquin | | | | | | | | | | | | | | T. | .23 | | .01 | | .42 | .58 | .63 | 1.04 | .73 | | | .15 | .06 | | | | | 3.85 |
| Ventura | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Visalia | San Joaquin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Warner Springs | Coast | | | | | | | | | | | | | | T. | | | .31 | | | | | .20 | | | .58 | | 1.38 | .20 | | | | 2.67 |
| Wasco | San Joaquin | | | | | | | | | | | | | | .25 | | | | | | | .15 | T. | .09 | | | | .19 | | | | | 0.68 |
| Watsonville | Coast | | | | | | | | | | | | | .50 | | | .17 | | | .36 | .15 | .63 | .19 | | .24 | .04 | .42 | .09 | | | | | 2.79 |
| Weaverville | Sacramento | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weitchpec | Klamath | .25 | | | | | | | | | | | | | | | .04 | | | .19 | .24 | .01 | .58 | .12 | | | .03 | | | | | | 1.46 |
| West Branch | Sacramento | | | | | | | | | | | | | | .02 | | | .03 | .48 | .60 | 1.37 | .99 | 1.70 | 1.00 | .34 | T. | .23 | .60 | | | | | 7.36 |
| Westley | San Joaquin | | | | | | | | | | | | | | .58 | .18 | | .27 | | | | .56 | .90 | .20 | | | | | .33 | | | | 3.02 |
| West Point | ...do | | | | | | | | | | | | | | | .04 | T. | .08 | .31 | | 1.15 | 1.43 | 1.02 | 1.01 | T. | T. | .05 | | | | | | 5.09 |
| West Saticoy | Coast | | | | | | | | | | | | | .50 | | | | | | | | .67 | .07 | | | .15 | | 1.12 | | | | | 2.51 |
| Wheatland | Sacramento | | | | | | | | | | | | | | T. | | | T. | .03 | .10 | 1.61 | 1.15 | .21 | .08 | | | | .05 | | | | | 3.23 |
| Willows | ...do | | | | | | | | | | | | | | T. | | T. | | T. | .67 | .66 | 1.35 | .27 | .01 | | | .12 | .54 | | | | | 3.62 |
| Woodleaf | ...do | | | | | | | | | | | | | | .16 | | .08 | .13 | T. | .16 | .68 | .62 | .98 | 1.36 | | .41 | .98 | .12 | | | | | 5.67 |
| Yosemite | San Joaquin | | | | | | | | | | | | | .16 | | | | .10 | .16 | .10 | .32 | .10 | .84 | .62 | | | | .04 | | | | | 2.44 |
| Yucaipa | Coast | | | | | | | | | | | | | | .07 | | .01 | | | | | | .40 | | | .55 | .10 | .65 | | | | | 1.78 |

TABLE 3.—*Maximum and minimum temperatures at selected stations for March, 1910. District No. 11, California.*

California.

| Date. | Lakeview, Oreg. | | Alturas. | | Barstow. | | Branscomb. | | Brawley. | | Colusa. | | Eureka. | | Fresno. | | Independence. | | Los Angeles. | | Mount Tamalpais. | | Nevada City. | | Portersville. | | Red Bluff. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 54 | 25 | 56 | 27 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 2 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 3 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 4 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 5 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 6 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 7 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 8 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 9 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 10 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 11 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 12 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 13 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 14 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 15 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 16 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 17 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 18 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 19 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 20 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 21 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 22 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 23 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 24 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 25 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 26 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 27 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 28 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 29 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 30 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| 31 | 54 | 28 | 56 | 28 | 78 | 44 | 70 | 36 | 86 | 49 | 72 | 44 | 58 | 46 | 76 | 47 | 74 | 44 | 68 | 52 | 68 | 46 | 72 | 44 | 74 | 46 | 72 | 51 |
| Means | 54.0 | 28.3 | 56.6 | 28.1 | 78.0 | 44.2 | 70.0 | 36.2 | 86.0 | 49.1 | 72.5 | 45.3 | 58.3 | 46.3 | 76.9 | 47.7 | 74.9 | 44.8 | 68.6 | 52.3 | 68.8 | 46.2 | 72.5 | 44.5 | 74.0 | 46.3 | 72.5 | 51.0 |

California.

| Date. | Redlands. | | Sacramento. | | San Diego. | | San Francisco. | | San José. | | San Luis Obispo. | | Santa Barbara. | | Santa Rosa. | | Sisson. | | Stockton. | | Summit. | | Susanville. | | Yosemite. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 80 | 49 | 69 | 43 | 81 | 47 | 70 | 48 | 71 | 49 | 82 | 49 | 69 | 46 | 73 | 44 | 65 | 30 | 67 | 35 | 64 | 30 | 66 | 32 | 62 | 30 |
| 2 | 80 | 50 | 74 | 46 | 80 | 50 | 74 | 51 | 76 | 46 | 84 | 50 | 64 | 46 | 72 | 46 | 66 | 31 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 3 | 80 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 4 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 5 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 6 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 7 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 8 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 9 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 10 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 11 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 12 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 13 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 14 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 15 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 16 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 17 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 18 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 19 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 20 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 21 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 22 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 23 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 24 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 25 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 26 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 27 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 28 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 29 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 30 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| 31 | 83 | 55 | 74 | 46 | 80 | 51 | 74 | 46 | 76 | 44 | 86 | 51 | 64 | 46 | 72 | 46 | 66 | 32 | 68 | 36 | 66 | 32 | 66 | 32 | 62 | 32 |
| Means | 72.3 | 44.8 | 65.8 | 48.2 | 63.6 | 50.0 | 61.6 | 48.2 | 66.2 | 44.5 | 66.0 | 47.0 | 63.7 | 47.0 | 65.8 | 42.4 | 56.3 | 31.1 | 63.6 | 46.5 | 43.1 | 32.5 | 58.0 | 30.6 | 63.8 | 30.0 |

## Climatological Data for March, 1910.

## DISTRICT No. 12, COLUMBIA VALLEY.

EDWARD A. BEALS, District Editor.

### GENERAL CLIMATOLOGICAL CONDITIONS.

The month was characterized by its mildness, deficiency in precipitation, and an abundance of sunshine. The conditions more nearly resembled those of an average April rather than those of an average March, and vegetation made rapid advancement, especially pasturage which was badly needed on account of the shortage of hay caused by the cold winter and the heavy feeding that was done during January and February. Stock picked up in flesh rapidly and the losses were not so great as expected. By the end of the month stone fruit was in bloom in many localities, but commercial orchards, as a rule, were not far enough advanced to be seriously injured by the heavy frosts that occurred on the 25th and 29th.

The avalanches and floods at the end of February continued during the first few days of March. The avalanches were especially severe and never before, so far as known, had they been so numerous. They caused the loss of over 100 lives, and the destruction of several hundred thousand dollars worth of property. A special report covering this phenomenon has been prepared and will appear in the issue for April, 1910. The floods, also, were unusually severe for the season of the year, and they did an immense amount of damage along the line of railroads, and to some of the county roads, by washing away bridges and causing small landslides which made repairs slow and expensive. Reports received at the end of the month show that the amount and condition of snow in the mountains indicate that an average, or possibly slightly less than an average flow will be maintained during the coming season in the principal streams from which water is taken for irrigation purposes.

### TEMPERATURE.

The mean temperature, as determined from the records of 236 stations, was 45.7°, and it was above the normal in all sections. The greatest departures from the normal temperatures were in the upper valley and portions of the central valley of the Snake River, and near the headwaters of the branches of the Columbia River, in Montana, where the mean temperatures were 6° to 10° above the normal. Elsewhere, departures ranged uniformly between 5° and 7°, except in portions of the central valley of the Snake River, and along the coast where, as usual, the departures from seasonal temperatures were less.

The warmest sections were in the upper portion of the Umpqua watershed, and in the lower Columbia Valley, near the mouth of the John Day River, where mean temperatures of about 54.0° occurred. It was coldest near the headwaters of the Snake River in southeastern Idaho,where a mean temperature as low as 31.0° occurred at an elevation of 4,815 feet, and it was nearly as cold near the headwaters of the Columbia River in Montana, at elevations above 4,000 feet. Elsewhere the mean temperatures varied according to location and elevation, being generally greatest along the sea coast, and at the lower levels in the interior, and lowest in the highlands, especially in the extreme eastern counties, as already noted.

There were 2 distinctive cold spells, one during the latter half of the first decade, at which time the lowest temperatures were generally recorded over the eastern districts, and the other during the last decade, when the lowest minimum temperatures occurred in the western sections. The highest temperatures occurred during the second decade.

The highest recorded mean temperature was 54.0° at Glendale, Oreg., on the Umpqua watershed, at an elevation of 1,441 feet above sea level, and at Blalock; also in Oregon, in the middle Columbia basin, at an elevation of 237 feet. The lowest recorded mean temperature was 31.0° at Camas, Idaho, on the watershed of Lost River, at an elevation of 4,815 feet above sea level. The highest recorded temperature was 88° at Kennewick, Wash., in the Columbia River Valley, on the 15th, and the lowest was −4° at Alta, Wyo., in the upper Snake drainage basin, on the 10th.

### PRECIPITATION.

The average precipitation, as determined from the records of 345 stations, was 2.01 inches, which is below the normal. The precipitation was generally above the average in southwestern Washington, in the Valley of the Columbia in central Washington and in localities near the headwaters of the branches in Montana, and in western Wyoming, though these departures from normal precipitation were not great. The greatest deficiencies occurred west of the Cascade Mountains, and generally at stations having the greatest average monthly rainfall. With the exception of the period from the 9th to the 16th, inclusive, precipitation was quite general over the district, and it was very well distributed throughout the month, the periods of greatest rainfall being the first 5 days of the month, and from the 18th to the 23d, inclusive. In the western counties the heaviest rainfalls occurred on the 1st.

Very little snow, comparatively, fell during this month, and in the valleys and at moderate elevations the accumulated snow blanket had generally disappeared by the close of the month, although in sheltered places in the forests and in canyons and ravines, there was still considerable well-packed snow; the amount was, however, somewhat less than is usual at this season.

The heaviest precipitation occurred west of the Cascade Mountains, where 1 to 11 inches, mostly rain, fell. Over the remainder of the district, the precipitation was generally less than 5 inches in any one locality, the greatest amounts occurring at moderate elevations.

The greatest monthly precipitation was 11.25 inches at South Bend, a station in the coast drainage area, in Pacific County, Wash., and no precipitation occurred at Oakley, on the watershed of the upper Snake River, in Casia County, Idaho, at an elevation of 4,191 feet. The greatest 24-hour fall was 4.25 inches at Astoria, Oreg., on the 1st. Other heavy 24-hour falls worthy of mention were 3.90 inches at South Bend, Wash.; 3.82 at Kosmos, Wash.; 3.55 at Glenora, Oreg.; 3.11 at Yale, Wash.; 3.07 at Welches, Oreg.; 3.00 at Lake Keechelus, Wash.; 2.98 at Pompeii, Oreg.; 2.80 at Mountain Park., Oreg; 2.55 at Lester, Wash.; 2.54 at North Head, Wash.; 2.53 at Mountain Home, Oreg.; and 2.36 at Centralia, Wash., all occurring on March 1.

### THE RIVERS.

Heavy rains during the last days of February caused high water in the Willamette River early in March (a special report on which follows), while snow, melting rapidly as a result of Chinook conditions, and at some places assisted by rain, caused destructive floods and washouts generally in the lowlands throughout eastern Oregon and in Washington, Idaho, and Montana.

The Columbia River averaged from 4.6 feet above the normal for the month at Vancouver, Wash., to 9.4 feet above at The Dalles, Oreg., but farther up the stream it was only a few feet higher than usual. The mean of the daily stages for the month was 7.9 feet higher than in February at Vancouver, and 13.6 feet higher at The Dalles, above which station it was generally from 6 to 8 feet higher. The highest stages occurred on the 25th, except at Vancouver where it reached 17.0 feet on the 5th;

the highest stage at The Dalles was 24.4 feet on the 24th. The river was at the lowest stage for the month on the 1st.

The mean stage of the Willamette was about a foot above the normal for the month, except at Portland where backwater from the Columbia caused it to be 6.6 feet above; the Willamette averaged a foot higher than in February; during the freshet it reached a stage of 19.6 feet at Portland on the 5th, which is 4.6 feet above the flood stage. There was a second period of comparatively high water during which a stage of 14.8 feet was recorded at Portland on the 26th. The highest water at all stations on the Willamette occurred during the first 5 days, while the river was at its lowest on the 31st, except at Portland where it was lower on the 17th.

The loss due to high water in Oregon was not great; at Portland flood warnings were issued in time for merchants to remove goods that would have been affected. Early in the month much inconvenience and some loss was occasioned in the plains of Harney County and also in central Oregon by washouts and flooded roads.

In Washington excessive precipitation during the last days of February and the first of March resulted in severe floods. The loss to branch lines of the Oregon Railroad and Navigation Company in that State is estimated at $100,000 and it will be several months before the repairs are completed. In that State, as well as in Montana and portions of Idaho, snow lay on the ground that had previously been frozen, and when it melted the waters flowed over the hard surface so rapidly that they soon reached the main streams in the valleys where they carried away bridges and washed out railway roadbeds. In Whitman County the commissioners estimate the damage to bridges at $100,000. On the electric line between Colfax and Steptoe 5 bridges, several miles of track, terminal grounds and a depot were washout out, the estimated loss being $100,000.

All streams in Idaho were high on the 1st. The water in Indian Creek, mentioned in the February report, soon subsided. An ice gorge in the Payette River broke on the 1st and carried away the Payette Valley Railroad bridge at Payette. Washoe bottoms, on the Snake River, were flooded on the 2d causing loss of stock and making it necessary for several families to abandon their homes.

An abnormal rise in temperature melted the snow in the valleys and bench lands of Montana during the early part of the month. Silver Bow Creek rose to over 5 feet above its usual stage, causing the ice to break; the broken ice floated down stream and formed ice jams and at places forced the water out of its regular channel. About 2,500 yards of roadbed and ballast on the Butte, Anaconda, and Pacific Railway were carried away; the ice and high water also injured bridges. At Anaconda water in cellars in the business district ruined flour and damaged grains. At Kalispell on the 7th there was a loss of $1,000 as a result of water flowing into basements of stores. For a short time, early in the month, 2 feet of water covered the railway tracks near Drummond and a temporary span of the county bridge was forced away by an ice jam. The road commissioner of Ravalli County estimates the loss to that county in bridges at $10,000.

### MISCELLANEOUS PHENOMENA.

The prevailing winds were from the southwest. There was a marked excess of sunshine over the entire district. The percentage of possible sunshine being 59 at Spokane, 39 at Seattle, and 53 at Portland. Killing frosts were reported on the 6th, 25th, and 29th; vegetation, however, was not far enough advanced to be greatly damaged. No very high winds occurred during the month.

### SNOWFALL CONDITIONS IN THE MOUNTAINS AT THE HEADWATERS OF THE COLUMBIA RIVER AND ITS TRIBUTARIES AT THE END OF MARCH, 1910.

*British Columbia.*—The winter's snowfall over the Columbia River watershed was somewhat less than the usual amount and, on account of the mild weather during March, the snow in the valleys disappeared earlier than usual. There is still considerable snow left on the hills and mountains, though less than the average amount generally remaining at this time of the year.—*E. Baynes Reed, Superintendent, British Columbia Weather Service.*

#### MONTANA.

*Bitterroot Basin.*—Warm weather during March has greatly reduced the depth, but at high altitudes has only served to leave the snow very solid. In the foothills it has mostly melted, and as a result the streams were much higher than usual for this month. In the Bitterroot Range the snow that fell in February has become very solid, and an average late flow of water is indicated.

*Flathead Basin.*—The snowfall for March was deficient in the Main Range and Kootenai Mountains, but the snow remaining at high altitudes is very solid from thawing and freezing. There is from 2 to 4 feet of icy snow at elevations above 5,000 feet in the Main Range, and about the same in the Cabinet Range.

*Kootenai Basin.*—There is 4 feet or more of solidly packed snow above 5,000 feet altitude in the Purcell Mountains, and an average of about 8 feet at 7,000 feet in the Cabinet Range within this basin. The snow below 4,000 feet elevation melted during the month, giving an unusual flow of water in all streams.

*Missoula Basin.*—The March snowfall was about the average in the Bitterroot Mountains within this basin. Above 6,000 feet elevation the snow is reported to be 8 to 14 feet deep and very solid. Conditions are somewhat less favorable in the Main Range.

*Wyoming.*—During the early winter a good quantity of snow fell in the mountains at the headwaters of the Snake River in western Wyoming and became thoroughly packed. The month of March was unusually warm and dry, so that at the close of March the snow had disappeared from most of the valleys and foothills, but good depths still existed in the mountains, although the depths were not as great as they were a year ago. From present indications, the streams will not be high during the spring unless unusually heavy spring rains occur. The snow in the mountains will melt slowly and should give nearly an average flow during the late summer.

*Idaho.*—The snowfall during December, January, and February was above normal. November precipitation was very heavy, but was mostly in the form of rain. March was mild and dry, and a large part of the snow has already melted. There is considerably less than the usual amount of snow now in the mountains, but that which remains is compact and the gulches are well filled, while the soil is saturated. Indications point to slightly less than the normal flow of water during the coming season.

*Washington.*—The total snowfall of the winter has been somewhat above the average amount, except in the Blue Mountains and some parts of the Okanogan highlands. The excess of snowfall occurred entirely during the month of February. During November the snowfall was not heavy, during December it was about the average for the month, and during January it was generally below the average in the mountains. Heavy rainfall and warm winds caused the greater part of the snow to disappear in November, but prolonged cold periods in December and January prevented much run-off. High winds caused much drifting into the ravines and gulches. The snowfall during the last 18 days of February was phenomenal in amount the greatest in the last 18 years. Much has melted and run off from the slopes in the last few days, and there were many heavy slides from the summits in the last few days of February and the first week of March. There was a very light fall during March, and the exceptionally warm weather caused the slopes to become bare, but heavy drifts remained in the gulches, packed hard, and melting gradually.

*Oregon.*—Only in a few localities was there snow in October; in November, although the precipitation was above the normal, only about the average amount of snow fell, but the rains operated to saturate the ground to quite a depth, and the comparatively heavy snowfall of December and the first part of January was later melted by rains and mild weather in the western sections, but in the eastern districts the ground had become frozen to a considerable depth during the extreme cold spell in December, and high winds caused the snow to drift, to be packed later by light rains and mild weather. The February snowfall was above the average, especially in the Blue Mountains, and being generally well packed in all sections, the snow will melt and run off slowly. Correspondents, generally, believe that there will be an abundant supply of water the coming season.

### NEWS ITEM.

On account of the mild weather during the month of March, the elk in western Wyoming were able to secure food and the anticipated losses did not occur. The elk have been increasing in numbers during the last few years in that section. During the month, a carload was shipped from Jackson, Wyo., to Sheridan, Wyo., where they will be released in the Big Horn Mountains in the hopes that they may breed and restock those mountains.

## CLIMATOLOGY OF DESCHUTES VALLEY.

By EDWARD A. BEALS, District Forecaster.

### THE RIVER.

The Deschutes River rises near the summit of the Cascade Mountains in Crescent Lake, Klamath County, Oreg. It is about 210 miles long, flows in a northerly direction and empties into the Columbia River at Deschutes, a small town 15 miles east of The Dalles, and 4 miles east of the Celilo Rapids. The basin is triangular in shape (as shown by the map, fig 1), being narrowest near the mouth of the river and broadest in the south, owing to the course taken by its principal eastern tributary, the Crooked River, which rises in the Blue Mountains and flows westerly for about half its length and then northwesterly until it joins the main stream nearly opposite the southeastern corner of the Warm Springs Indian Reservation. Other important tributaries from the east are Trout and Willow creeks, both of which rise in the Blue Mountains and flow northwesterly and empty into the Deschutes River below the mouth of Crooked River. The principal western tributaries are West Fork, which rises in 4 small lakes in a high timbered country, and Tumulo Creek, Squaw Creek, Metolius River, and Warm Springs River. Crescent Lake, which is the source of the Deschutes River, is a fine body of water 6 miles long and 3½ miles wide. The lakes at the head of West Fork are smaller than Crescent Lake, as are also those near the headwaters of Tumulo Creek, Squaw Creek, and Metolius River, but many of them have swampy surroundings, thus showing that these natural reservoirs have a larger storage capacity than indicated by the amount of water in sight.

The Deschutes River drops 4,840 feet from Crescent Lake to its confluence with the Columbia River, and on account of the uniformity of its flow, its power and irrigation possibilities are enormous. These are treated in the succeeding paper by Mr. J. C. Stevens, District Engineer of the Water Resources Branch of the United States Geological Survey, who has made a special study of the river in this connection. The accompanying views of the river have been loaned by Mr. John H. Lewis, State Engineer of Oregon.

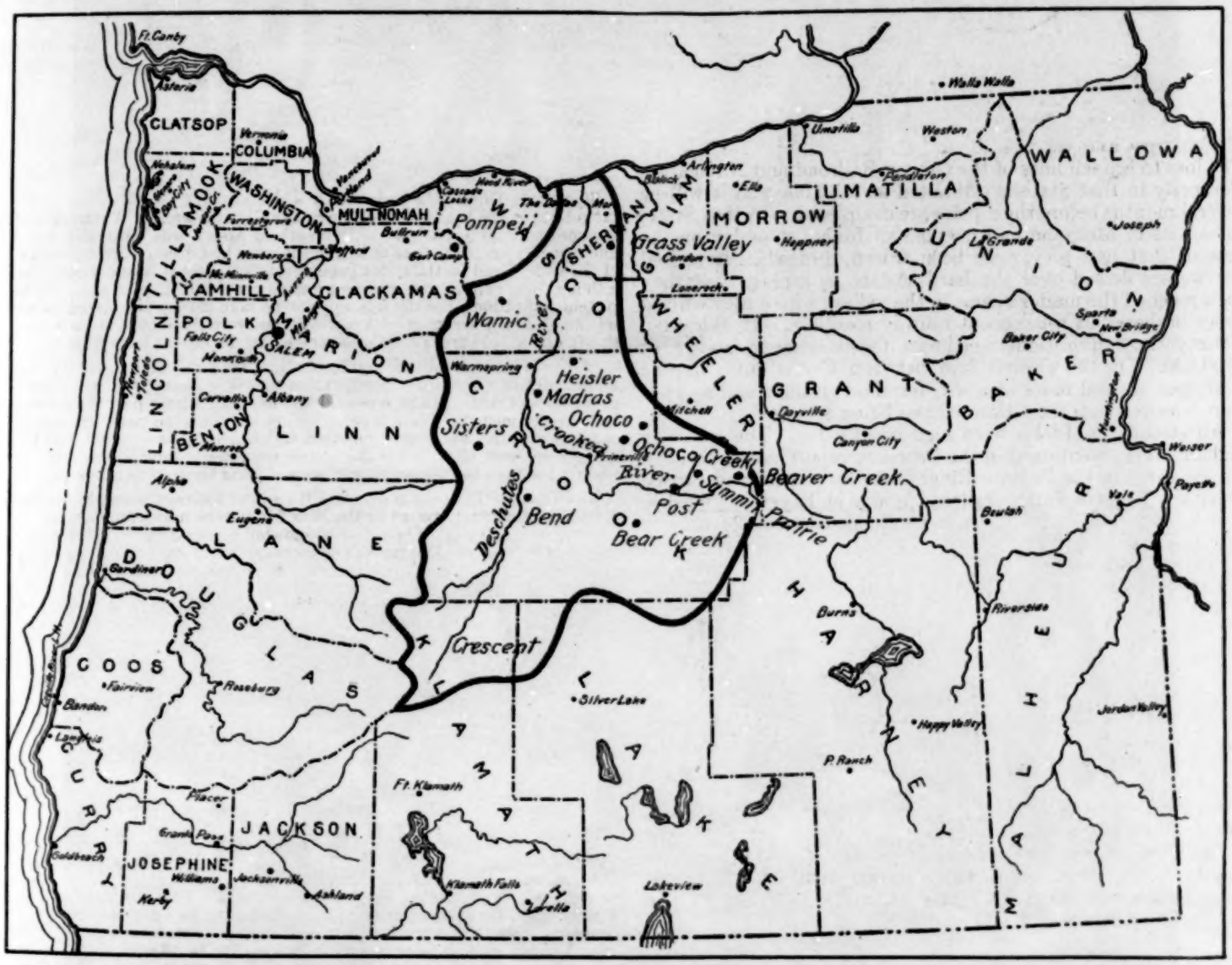


FIG. 1.—Drainage basin of the Deschutes River, Oreg., and names of places at which meteorological observations have been taken in that region.

### TOPOGRAPHY.

The upper and broadest portion of the valley is a high plain, broken in places by ridges and hills, but on the whole quite level; the lower portion of the valley is very hilly. The Cascade Mountains on the west have an average elevation of 5,000 feet and they are crowned with several peaks that are covered with snow the year round; the most noted of which are, Mount Jefferson, Mount Washington, Three Sisters, Maiden Peak

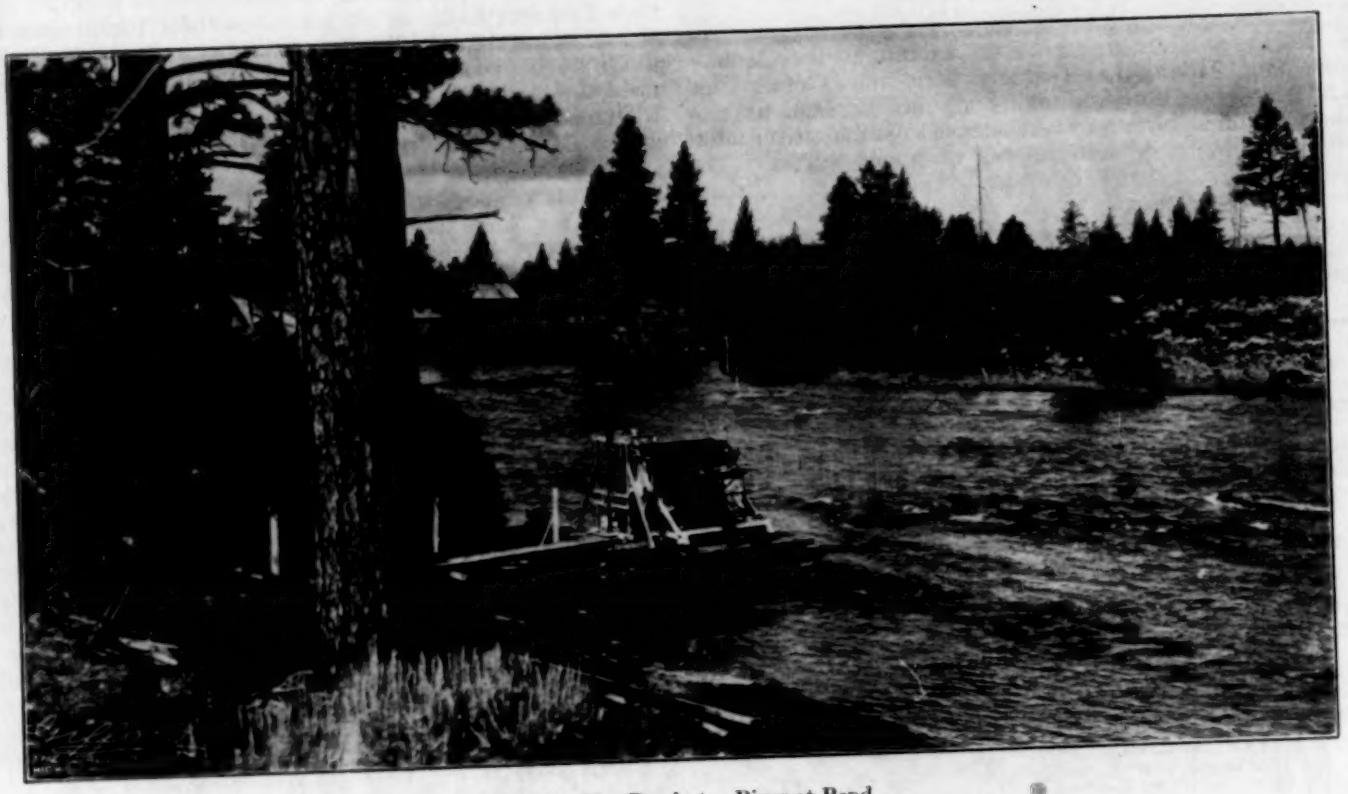

FIG. 2.—The Deschutes River at Bend.

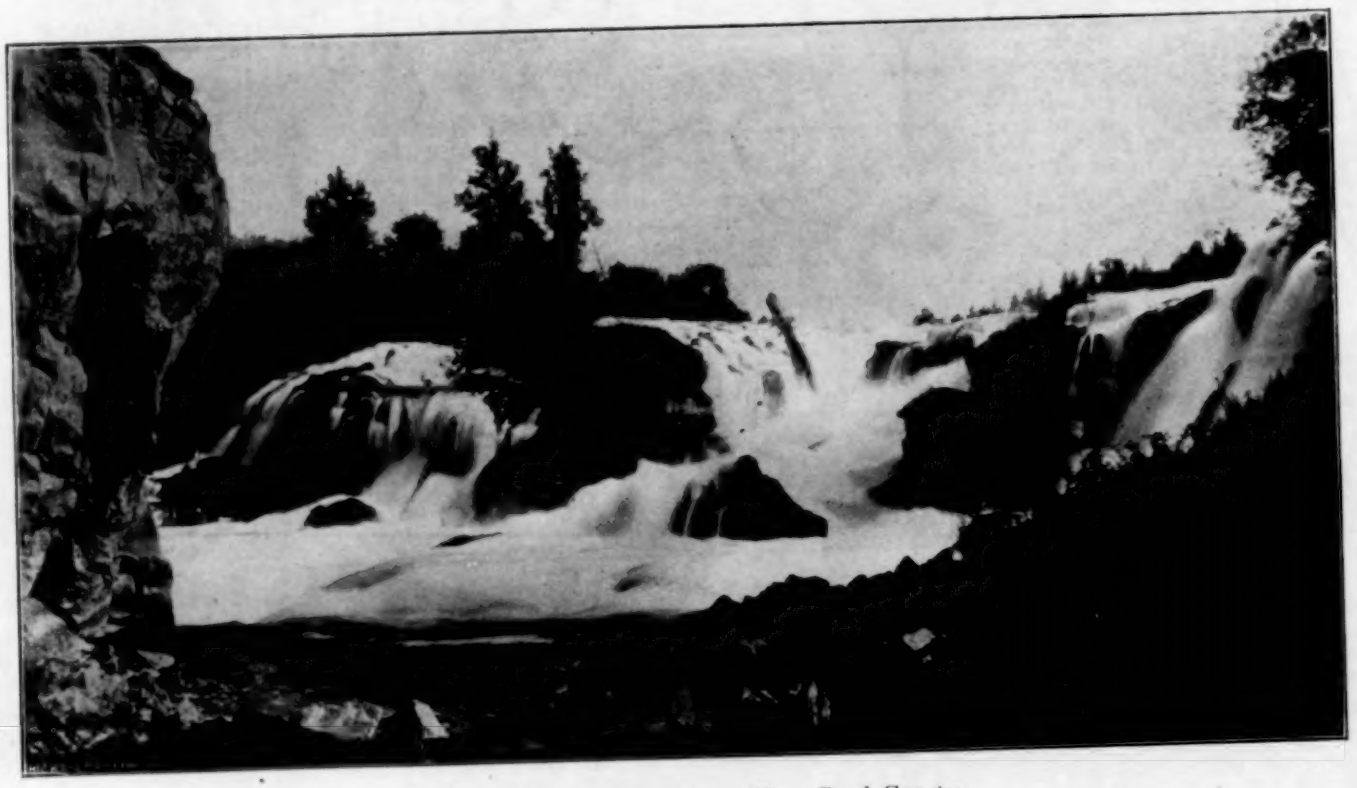

FIG. 3.—Cline Falls, on Deschutes River, Crook County.

Diamond Peak, and Cowhorn Peak. In the south, near the source of the main stream, is the Walker Range, an eastern spur of the Cascade Range, and to the northeast and east are offshoots of the Blue Mountains, known as the Paulina Mountains, Maurey Mountains, Grizzley Mountains, etc. The offshoots from the Blue Mountains are not so high as the Cascade Mountains, but many of their peaks reach altitudes of 2,000 feet, or more, above the plains below. The divide between the Deschutes and John Day rivers for a distance of 50 miles south of the Columbia River, is a rolling country, with many hills, but none high enough to be classed as mountains.

SOIL.

The soil is composed of disintegrated lava and is commonly called volcanic ash. It is similar to that covering a large area in the central portion of the Columbia River Valley and it has slowly accumulated through the weathering of the great sheets of lava that overflowed northern Oregon and central Washington during the Miocene period. South of Cline Falls, fig. 3, much of the lava is soft and porous, instead of being hard and brittle, and the disintegrated scoria have become a pumice soil capable of retaining a large amount of water. This water seeps into the river beds slowly with little variation from day to day. The soil although fertile is not uniformly deep and there are many places where the bed rock comes to the surface.

VEGETATION.

There are comparatively few barren areas in this region such as are found in the Colorado desert, and the entire basin is covered by a natural growth of some kind. The slopes of the mountains are forested and the plains are dotted with Juniper trees and covered with sage brush, bunch grass, etc. The most common tree in the mountains is the yellow pine (*Pinus ponderosa*) and on the plains the juniper (*Juniperus occidentalis*). The latter makes excellent fence posts and the former furnishes a fine grade of lumber that can be used for almost any purpose. The largest belt of timber extends from the Warm Springs Indian Reservation southward to California. It widens southward, reaching the banks of the Deschutes River, near Bend (see fig. 2), and gradually spreads eastward to the upper limits of the basin. The average width of this forest is about 50 miles and its length is about 150 miles.

There is very little underbrush in the forests in the Deschutes Valley, so that one can go on horseback through them in any direction without having to change one's course on account of undergrowth obstructing the path taken. Forests similar to the one just described, except that they are smaller in area, cover the slopes of the Paulina, Maurey, and Grizzley mountains. About half of the forests is owned by corporations and private persons, and the other half has been withdrawn from public sale and put in the hands of the United States Forest Service for administrative purposes.

The bunch and rye grasses on the plains furnish feed for thousands of head of cattle, horses, and sheep, many of which are kept on the plains in winter, and in the mountains during the summer months, or until the snow covers the feeding grounds in the fall. Very little farming has so far been done, but it has been proven that both the climate and the soil are favorable for raising grain, alfalfa, vegetables and, in certain localities, fruit.

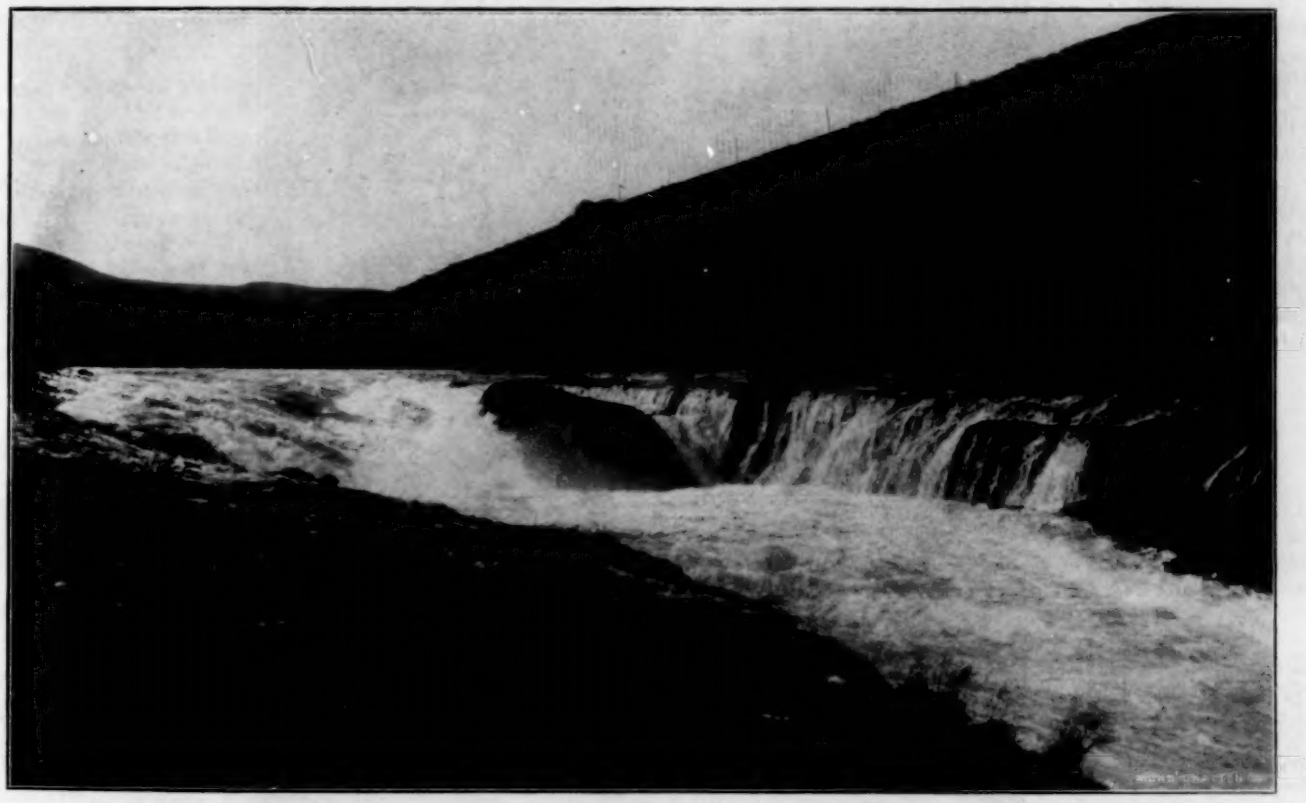

FIG 4.—Deschutes River at Sherar's bridge.

HISTORICAL AND DESCRIPTIVE.

The first white people to explore the Deschutes Valley were those under the command of Col. John C. Fremont in 1843. This party left The Dalles in November and traveled south to California. They passed through the Deschutes Valley, and the Walker Mountains were named by Colonel Fremont after the army officer who directed him to make the journey. Irrigation in a small way has been carried on in the neighborhood of Prineville for many years, but no attention was given to this subject in other parts of the valley until about 8 years ago when extensive projects under the Carey Act were started in the neighborhood of Bend. There are now several thousand acres

of land in the Deschutes Valley being irrigated and more will soon be ready. The principal ditches now in operation are the Finley Ditch near Rosland, the Central Oregon, Pilot Butte, and Columbia Southern ditches near Bend, and the Carmichael Ditch at Prineville. To those who wish to live on the land and cultivate it thousands of acres are open to settlement. and it is expected that in a short while the large sheep and cattle ranches will be a thing of the past, and that small farms devoted to the raising of grain, alfalfa, and vegetables will take their place.

believed that further extensions will be made as soon as the portions now contracted for have been completed.

The Warm Springs Indian Reservation containing 725 square miles is wholly within the Deschutes Basin. The soil on this reservation is rich and produces an abundance of grain, grasses, and vegetables. At the time of the last census there were 837 Indians living on the reservation and 37 farms were being cultivated. The majority of these farms had from 20 to 80 acres under cultivation and the crops were reported as being very good. The country surrounding Madras is much like

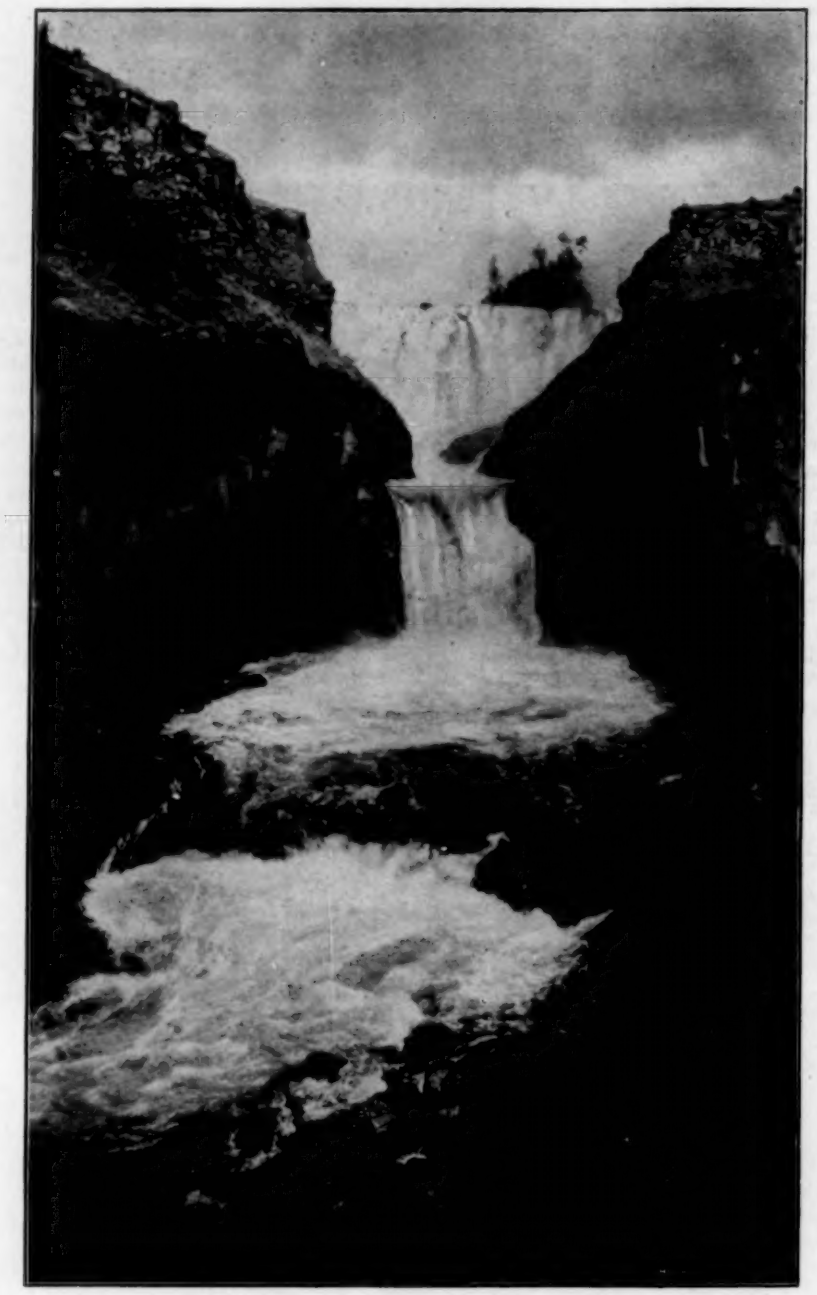

FIG. 5.—White River Falls, in lower Deschutes Valley.

Two railroads are now being built up the valley from the Columbia River; the objective point of one being Madras and the other Redmond. Another railroad is being built over the Cascade Mountains which will pass through the northern end of the Deschutes Valley, and run from there to Klamath Falls. All 3 of these railroads are branches of great systems, and it is

that on the Warm Springs Agency Plains; its elevation is between 2,200 and 2,400 feet above sea level, and bunch grass and sage brush are found in large quantities. To the southeast of the "Madras Plains" are the "High Plains" about Prineville, which have long been known as the feeding place for great numbers of cattle, horses, and sheep. Prineville is a

thriving city of about 1,500 inhabitants, and is the distributing point for a large portion of the surrounding country. In the southern end of the valley is a section about 25 miles long and 6 miles broad known as Walker Basin. This section is covered with a growth of small pines, and the raising of stock has so far been the principal occupation of the few inhabitants in that locality.

Besides Prineville and Madras, other important towns are Redmond, about 100 miles south of the Columbia River; Bend, on the main stream about 115 miles from its mouth in an air line; Rosland, 35 miles south of Bend, and Crescent (formerly called Odell), in the upper end of the valley, about 155 miles from the Columbia River, and 90 miles from Klamath Falls. Telephone lines connect all these settlements and towns with railway points, and there is no question but this country, which is larger than the State of New Jersey, offering such exceptional advantages from an agricultural and manufacturing standpoint, will soon become well populated and the seat of numerous industrial activities.

### CLIMATIC CHARACTERISTICS.

The records from 18 stations are used in this discussion; 3 of these stations, viz: The Dalles, Grass Valley, and Silver Lake, are not in the Deschutes Basin, but they lie so near its border that they reflect fairly well the conditions in the valley itself. Another station, Pompeii, is on the divide between the Deschutes and the Willamette valleys. Of the remaining stations, there are only 4 having records extending back 5 or more years; therefore, it has been necessary, in order to reach any understanding whatever of the climatic conditions over large areas, to make use of the records from a number of stations that have been in operation only a short while.

In general the climate is dry, and subject to great extremes of temperature; there is an abundance of sunshine and for that reason, as well as on account of the dryness of the air, the extremes of temperature are not so noticeable as they otherwise would be. In the heart of the valley the temperatures sometimes go below the freezing point in midsummer, but they do not remain below this mark, as a rule, long enough to injure hardy vegetation; however, when a temperature of 26° is reached damage ensues, and the interval between the last temperature of 26° in the spring and the first in the fall constitutes the growing season for the staple crops raised in the valley. This season usually begins the middle of May and lasts until the middle of September. The prevailing winds are southwesterly, with a tendency to veer to the west, or even northwest, at times during the summer months.

### TEMPERATURE.

The mean temperature for the entire valley, as obtained from all available records is 48°; the warmest month is July, with a mean of 67°, and the coldest is January, with a mean of 31°. The range between the mean temperature of the warmest and the coldest months is about 36°, which is less than that in the northern States east of the Rocky Mountains. The warmest part of the valley is near the mouth of the river, where the mean temperature is 52°, from which point it decreases in going up stream to about 44° near the mouth of the West Fork, and to 42° at the summit of the main range of the Cascade Mountains. In the Crooked River Valley, at Prineville, the mean temperature is 48°, and at Warmspring it is 51°.

The highest temperature ever recorded in this valley is 112° at Wamic, and the lowest 32° at Warmspring. In the summer months temperatures of 90° are not uncommon in all parts of the valley, except high up on the slopes of the mountains, where the thermometer seldom, if ever, registers 80°. Sometimes the temperature rises above 100°, but such great heat is rare and does not last long. There are, usually, short spells every winter with zero temperatures, and weather of this character may occur in December, January, or February, but seldom is so low a mark reached in November or March, although in these months it has been that cold on a few occasions.

### PRECIPITATION.

The precipitation in the bottom of the valley averages about 12 inches, and increases rapidly with elevation, being about 86 inches at the summit of the Cascade Mountains, in the north, and about 20 inches near the summit of the mountains on the east side of the river. The rainfall increases slightly also near the bottom of the valley, in going up stream, being about 10 inches near the mouth of the river, nearly 12 inches at Warmspring, 16 inches at Bend, and 19 inches at Crescent. The precipitation is heaviest in the 3 winter months, and lightest in July and August. There is a secondary maximum in May and June, which is welcomed as it comes at the season of the year when the crops need the most moisture. This secondary maximum in rainfall is not very pronounced, but it is plainly shown in the records from Grass Valley, Prineville, Bend, Crescent, and Silver Lake. The average number of days with 0.01 of an inch, or more, of precipitation each year is about 68, and in a general way the number of rainy days follows the distribution of the rainfall, being least at the lower end of the valley, and increasing in going up-stream, as well as in going up the sides of the mountains on either side of the river.

About 23 per cent of the precipitation occurs in the form of snow, which may fall in small quantities as early as November, but is heaviest in January. The snow cover generally disappears sometime in March, although in the upper portion of the valley snow sometimes falls in April, and light falls have occurred in May; rarely, however, is there any snow in October. The snow does not cover the ground continuously throughout the winter in the bottom of the valley, but it does at moderate heights on the slopes of the mountains.

### THUNDERSTORMS.

The first of the season's thunderstorms generally occur in April, and during the 4 succeeding months there is usually one or more recorded each month throughout the valley, while, in the lower portion, the period of electric storms is often extended into or through September. The greatest number occur in June and July over most of the valley, with an apparent tendency toward the greatest frequency in June in the northern half, while over the southern half the greatest number have been recorded in July. There is an occasional thunderstorm in October, November, or December, but these are extremely rare.

TABLE 1.—*Monthly and annual precipitation.*

BAKE OVEN, WASCO COUNTY.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1892 | ..... | ..... | ..... | ..... | ..... | 0.44 | 0.64 | ..... | 0.32 | ..... | 1.08 | 1.70 | ..... |
| 1893 | 0.60 | 0.20 | 1.20 | 2.20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

BEAR CREEK, CROOK COUNTY.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1909 | 2.16 | 1.58 | 0.97 | 0.17 | 0.84 | 0.54 | 1.55 | 0.00 | 1.06 | 0.84 | 2.44 | 1.35 | 13.50 |

BEAVER CREEK, CROOK COUNTY.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1908 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.80* | 0.42 | ..... |
| 1909 | 2.23 | 1.31 | 0.57 | 0.25 | 0.65 | 0.62 | 1.24 | 0.00 | ..... | ..... | ..... | ..... | ..... |

* First 7 days missing.

BEND, CROOK COUNTY (latitude, 44° 4′ N; longitude, 121° 17′ W; elevation, 3,629 feet.)

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1901 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1902 | 0.63 | 2.05 | 0.65 | 0.83 | 0.90 | T. | 0.51 | 0.12 | 0.10 | 0.19 | 2.09 | 2.83 | 10.90 |
| 1903 | 3.46 | 0.35 | 1.02 | 0.02 | 0.05 | 1.95 | 0.42 | 0.20 | 0.02 | 0.33 | 4.94 | 0.61 | 13.37 |
| 1904 | 1.52 | 4.27 | 3.30 | 2.43 | 0.43 | 0.20 | 1.32 | 0.33 | 0.28 | 0.74 | 0.42 | 1.86 | 17.10 |
| 1905 | 2.83 | 0.74 | 2.39 | 0.29 | 1.99 | 1.29 | 0.31 | 0.00 | 0.41 | ..... | ..... | ..... | ..... |
| 1906 | 0.97 | 1.25 | 1.25 | 0.07 | 1.45 | 1.68 | 0.55 | T. | 0.31 | 0.26 | 1.86 | 0.77 | 10.42 |
| 1907 | 6.34 | 4.00 | 2.33 | 1.30 | 1.42 | 1.79 | 0.23 | 1.44 | 0.96 | 0.40 | 0.76 | 4.78 | 25.75 |
| 1908 | 1.59 | 1.12 | 4.92 | 0.86 | 0.41 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1909 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.50 | 0.46 | 4.67 | 1.76 | ..... |
| Mns.. | 2.48 | 1.97 | 2.27 | 0.83 | 0.95 | 1.15 | 0.56 | 0.35 | 0.51 | 0.40 | 2.46 | 2.10 | 16.03 |

*Interpolated.

TABLE 1.—*Monthly and annual precipitation*—Continued.

CRESCENT, KLAMATH COUNTY (latitude, 43° 27′ N; longitude, 121° 42′ W; elevation, 4,452 feet).

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1905 | ..... | ..... | ..... | ..... | 1.65 | 0.34 | 0.07 | T. | 0.39 | 0.69 | 0.66 | 0.88 | ..... |
| 1906 | 2.54 | 2.33 | 1.91 | 0.61 | 2.68 | 2.22 | 2.07 | T. | 0.42 | 0.74 | 1.92 | 2.85 | 20.29 |
| 1907 | 4.70 | 4.40 | 3.13 | 1.50 | 2.71 | 0.52 | 0.65 | 1.37 | 1.26 | 0.49 | 2.65 | 6.09 | 29.47 |
| 1908 | 1.56 | 1.00 | 1.16 | 0.82 | 0.58 | 0.54 | 0.31 | 0.19 | 0.25 | 3.61 | 1.49 | 1.03 | 12.54 |
| 1909 | 7.73 | 2.96 | 0.94 | 0.07 | 0.78 | 0.72 | 1.12* | 0.00 | 1.60 | ..... | ..... | ..... | ..... |
| Mns. | 4.13 | 2.67 | 0.75 | 0.75 | 1.68 | 0.87 | 0.84 | 0.31 | 0.78 | 1.38 | 1.68 | 2.71 | 18.55 |

*Interpolated.

GRASS VALLEY, SHERMAN COUNTY (elevation, 2,381 feet).

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1889 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.82 | 0.56 | 0.93 | ..... |
| 1890 | 1.62 | 4.95 | 1.11 | 0.34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1891 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.07 | 0.00 | 0.35 | 0.66 | ..... | ..... |
| 1902 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.52 | 2.19 | 2.30 | ..... |
| 1903 | 1.95 | T. | 0.57 | 0.50 | 0.04 | 1.94 | 0.20 | 1.40 | 0.65 | 0.60 | 2.15 | 1.10 | 11.10 |
| 1904 | 0.15 | ..... | ..... | ..... | ..... | ..... | 0.09 | T. | 0.25 | 1.11 | 0.77 | 0.78 | ..... |
| 1905 | 0.76 | 0.20 | 0.05 | 0.03 | 1.70 | 1.30 | 0.36 | T. | 0.75 | 1.36 | 0.85 | 1.35 | 8.71 |
| 1906 | 1.00 | 0.85 | 1.65 | 0.10 | 1.05 | 1.85 | T. | 0.34 | 0.35 | T. | 2.59 | 2.22 | 12.00 |
| 1907 | 2.65 | 0.48 | 1.60 | 1.06 | 0.90 | 0.89 | 0.30 | 0.71 | 0.50 | 0.20 | 1.46 | 2.68 | 13.43 |
| 1908 | 0.55 | 0.02 | 0.68 | 0.11 | 1.41 | 0.37 | 0.22 | 0.34 | 0.12 | 1.11 | 1.12 | ..... | ..... |
| 1909 | 2.56 | 1.03 | 0.68 | 0.10 | 0.49 | 0.99 | 0.10 | 0.02 | 0.45 | 0.87 | 3.34 | 1.14 | 11.77 |
| Mns. | 1.40 | 1.08 | 0.91 | 0.32 | 0.93 | 1.22 | 0.18 | 0.36 | 0.38 | 0.69 | 1.57 | 1.56 | 10.60 |

HEISLER, CROOK COUNTY (elevation, 1,870 feet).

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1905 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.28 | 0.45 | ..... |
| 1906 | 5.97 | 0.49 | 1.41 | 0.38 | 0.74 | 1.32 | 1.13 | T. | 0.33 | 0.10 | 0.79 | 1.06 | 8.72 |
| 1907 | 1.92 | 2.21 | 1.95 | 0.50 | 1.44 | ..... | ..... | 2.12 | 0.03 | 0.20 | 0.07 | 3.25 | ..... |
| 1908 | 0.50 | 0.35 | 0.15 | 0.21 | 0.15 | 0.60 | 0.38 | ..... | ..... | ..... | ..... | ..... | ..... |
| Mns. | 1.13 | 1.02 | 1.17 | 0.38 | 0.78 | 0.96 | 0.76 | 1.08 | 0.18 | 0.15 | 0.38 | 1.59 | 9.56 |

MADRAS, CROOK COUNTY.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1909 | ..... | 1.29 | 0.32 | T. | 0.47 | 0.46 | 0.30 | T. | 2.03 | 0.55 | 2.17 | 2.40 | ..... |

OCHOCO CREEK, CROOK COUNTY.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1903 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.76 | ..... |
| 1909 | 3.00 | 2.01 | 0.79 | 0.32 | 0.71 | 0.61 | 1.00 | 0.00 | 1.71 | 1.16 | 4.43 | 2.56 | 18.30 |

POMPEII, CLACKAMAS COUNTY (elevation, 3,879 feet).

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1895 | ..... | ..... | ..... | ..... | 2.40 | 0.70 | ..... | ..... | ..... | 0.45 | 9.96 | 22.04 | ..... |
| 1896 | 14.02 | 14.16 | 13.93 | 13.29 | 15.36 | 3.33 | 0.00 | 2.98 | 1.95 | 5.25 | 25.31 | 14.77 | 124.35 |
| 1897 | 6.30 | 17.49 | 16.37 | 5.50 | 2.88 | 5.91 | 4.14 | 1.20 | 3.80 | 4.36 | 18.76 | 17.09 | 103.80 |
| 1898 | 11.46 | 12.94 | 6.19 | 4.49 | 3.69 | 3.01 | 1.82 | 0.80 | 6.89 | 4.71 | 19.83 | 12.10 | 87.93 |
| 1899 | 20.79 | 22.22 | 13.28 | 12.70 | 8.47 | 3.68 | 0.52 | 7.56 | 3.20 | 10.23 | 11.60 | 10.10 | 124.35 |
| 1900 | 10.25 | 12.33 | 7.78 | 5.04 | 5.99 | 4.80 | 0.79 | 3.31 | 5.81 | 11.98 | 6.05 | 6.79 | 80.92 |
| 1901 | 11.05 | 8.40 | 8.40 | 6.03 | 2.45 | 6.64 | 0.70 | 0.48 | 5.70 | 2.59 | 6.37 | 9.77 | 68.58 |
| 1902 | 5.54 | 6.85 | 10.27 | 5.23 | 7.24 | 1.54 | 5.71 | 1.35 | 4.23 | 3.75 | 18.13 | 13.40 | 83.30 |
| 1903 | 11.61 | 3.30 | 3.71 | 5.12 | 5.46 | 3.56 | 3.08 | 2.54 | 6.35 | 7.79 | 15.04 | 6.30 | 73.86 |
| 1904 | 13.03 | 14.93 | 12.01 | 3.63 | 2.72 | 3.07 | 1.78 | 1.02 | 1.25 | 4.65 | 9.34 | 12.07 | 79.50 |
| 1905 | 4.86 | 2.87 | 7.43 | 1.62 | 7.68 | 3.74 | 0.67 | 1.82 | 7.41 | 11.03 | 5.83 | 10.45 | 65.41 |
| 1906 | 6.19 | 4.26 | 2.66 | 1.80 | 4.62 | 6.24 | T. | 0.40 | 5.86 | 10.01 | 22.57 | 7.41 | 72.02 |
| 1907 | 10.75 | 8.00 | 5.13 | 7.35 | 1.81 | 3.80 | 0.73 | 3.11 | 2.98[4] | 1.81 | 11.03 | 12.84 | 69.34 |
| 1908 | 7.07 | 6.73 | 15.41 | 4.35 | 7.81 | 5.94 | 1.03 | 3.05 | 0.59 | 10.01 | 5.12 | 8.47 | 75.56 |
| 1909 | 13.57 | 11.06 | 6.36 | 6.17 | 5.09 | 1.01 | 4.72 | 0.83 | 5.43 | 6 01 | 24.75 | 8.30 | 93.30 |
| Mns. | 10.46 | 10.40 | 9.21 | 5.88 | 5.56 | 3.80 | 1.98 | 2.17 | 4.39 | 6.31 | 13.98 | 11.46 | 85.60 |

SILVER LAKE, LAKE COUNTY (latitude, 43° 8′ N; longitude, 121° 3′ W; elevation 4,700 feet).

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1889 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.49 | 1.18 | 1.31 | ..... |
| 1890 | 1.03 | 2.74 | 1.04 | 0.34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... |
| 1891 | 0.62 | 3.08 | 0.77 | 1.46 | 2.65 | 2.24 | 1.63 | 0.10 | 0.40 | 0.20 | 1.50 | 1.45 | 16.11 |
| 1892 | 0.12 | 0.91 | 2.40 | 0.77 | 2.52 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1893 | 1.50 | 0.75 | 1.09 | 0.93 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1894 | ..... | ..... | ..... | ..... | 3.06 | 0.82 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1895 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1896 | ..... | 0.09 | ..... | 1.89 | 0.64 | 0.30 | 0.13 | 0.39 | 0.18 | 0.49 | 2.32 | ..... | ..... |
| 1897 | 0.25 | 0.35 | 0.80 | 0.25 | 1.91 | 2.65 | 0.07 | 0.00 | 0.39 | 0.23 | 0.13 | 1.47 | 8.50 |
| 1898 | 0.27 | 0.30 | 0.15 | 0.22 | 1.87 | 0.76 | 0.20 | 0.05 | 0.20 | 0.56 | 2.03 | 0.38 | 6.99 |
| 1899 | 1.40 | 0.24 | 2.57 | 1.02 | 0.49 | T. | 0.00 | 0.40 | 0.37 | 1.44 | 0.75 | 1.68 | 10.36 |
| 1900 | 0.80 | T. | 0.31 | 0.53 | 0.90 | 0.42 | T. | 0.45 | 0.49 | 2.09 | 0.40 | 0.95 | 7.34 |
| 1901 | 0.08 | 1.69 | 0.30 | 0.10 | 0.34 | 0.04 | ..... | ..... | 1.09 | 1.31 | 0.57 | ..... | ..... |
| 1902 | 0.24 | 1.45 | 0.25 | 2.27 | 0.67 | T. | ..... | ..... | ..... | ..... | ..... | 2.16 | ..... |
| 1903 | 1.73 | 0.55 | 1.15 | ..... | 0.52 | 0.72 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1904 | ..... | ..... | ..... | 0.98 | 0.65 | 0.54 | 1.60 | 0.00 | ..... | 0.56 | 0.55 | ..... | ..... |
| 1905 | ..... | ..... | 1.03 | 0.70 | 1.48 | 2.33 | 0.05 | 0.00 | 1.34 | 0.55 | 0.23 | 0.07 | ..... |
| 1906 | 1.98 | 0.55 | 1.89 | 0.38 | 2.18 | 1.08 | 0.64 | 0.78 | ..... | ..... | 0.42 | 1.68 | ..... |
| 1907 | 1.11 | 2.04 | 3.23 | 0.52 | 2.17 | 0.89 | 0.51 | 1.23 | 0.87 | 0.77 | 0.38 | 2.10 | 15.64 |
| 1908 | 0.00 | 0.09 | 0.27 | ..... | 0.37 | 2.08 | 0.80 | 0.18 | 0.45 | 1.31 | 0.30 | 0.40 | ..... |
| 1909 | 3.50 | 0.98 | 1.07 | 0.10 | 0.34 | 1.43 | 0.43 | 0.00 | 0.89 | 0.65 | 3.28 | 0.70 | 13.37 |
| Mns. | 0.98 | 0.99 | 1.14 | 0.78 | 1.34 | 1.02 | 0.50 | 0.30 | 0.61 | 0.90 | 1.00 | 1.30 | 10.86 |

SUMMIT PRAIRIE, CROOK COUNTY.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1909 | 4.72 | 1.96 | 0.66 | 0.23 | 1.31 | 0 36 | 1.98 | ..... | 1.29 | 1.18 | 4.26 | ..... | ..... |

TABLE 1.—*Monthly and annual precipitation*—Continued.

THE DALLES, WASCO COUNTY (elevation, 112 feet).

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1850 | ..... | ..... | ..... | ..... | ..... | ..... | 0.01 | 0.00 | 0.09 | 0.91 | 1.14 | 0.19 | ..... |
| 1851 | 3.81 | 1.70 | 1.78 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1852 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.25 | 2.75 | 8.01 | ..... |
| 1853 | 3.02 | 1.09 | 0.27 | 1.29 | 0.62 | 0.00 | 0.58 | 0.61 | 1.41 | 0.24 | 4.90 | 0.95 | 14.48 |
| 1854 | 2.79 | 0.73 | 0.36 | 1.52 | 0.00 | 0.15 | 0.00 | 0.18 | 0.84 | 1.91 | 1.41 | 2.50 | 12.39 |
| 1855 | 3.03 | 0.63 | 1.87 | 0.17 | 1.08 | 0.24 | ..... | 0.00 | 0.69 | 0.15 | 1.44 | 2.24 | ..... |
| 1856 | ..... | 0.54 | 0.91 | 0.79 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 10.79 | ..... |
| 1857 | 7.08 | 1.85 | 2.83 | 0.00 | 0.23 | 1.02 | 0.08 | 0.00 | 2.70 | 0.25 | 5.38 | 7.42 | 29.34 |
| 1858 | 5.60 | 9.41 | 2.91 | 1.36 | 1.70 | 1.03 | 0.00 | 0.75 | 5.16 | 3.32 | 6.48 | 5.93 | 43.65 |
| 1859 | 5.33 | 6.00 | 6.07 | ..... | 1.27 | 0.20 | 0.06 | 0.47 | 5.77 | 2.14 | 4.25 | 3.66 | ..... |
| 1860 | 5.30 | 2.00 | 1.33 | 0.83 | 1.73 | 0.59 | 1.38 | 0.40 | 0.35 | 0.48 | 3.46 | 3.47 | 21.32 |
| 1861 | 2.68 | 3.26 | 1.59 | 1.46 | 1.34 | 2.08 | 0.00 | C.14 | 0.33 | 0.75 | 6.97 | 8.25 | 28.85 |
| 1862 | 4.47 | 2.25 | 3.54 | 0.20 | 2.61 | 1.03 | 0.22 | 0.07 | 0.64 | 0.43 | 0.20 | 0.63 | 16.29 |
| 1863 | 3.38 | 2.17 | 0.62 | 0.48 | 0.65 | 0.11 | 0.88 | 0.08 | 0.30 | 0.48 | 0.74 | 4.11 | 14.00 |
| 1864 | 5.88 | 0.22 | ..... | 0.20 | 0.09 | 0.36 | 0.00 | T. | 0.16 | 0.27 | 1.44 | 2.95 | ..... |
| 1865 | ..... | 1.66 | 1.52 | 0.06 | 0.00 | 0.08 | 0.55 | 0.57 | 0.59 | 2.06 | 6.37 | 2.55 | ..... |
| 1866 | 6.35 | 2.83 | 5.56 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1875 | 4.17 | 0.31 | 2.13 | 0.59 | 0.81 | 1.63 | 0.14 | 0.12 | 0.72 | 4.80 | 6.18 | 4.80 | 26.40 |
| 1876 | 2.76 | 1.39 | 2.20 | 1.09 | 0.20 | 0.34 | 0.07 | 0.02 | 0.13 | 2.37 | 4.31 | 0.46 | 15.34 |
| 1877 | 0.78 | 1.68 | 3.66 | 1.21 | 1.03 | 0.15 | 0.28 | 0.10 | 1.24 | 1.66 | 4.18 | 1.56 | 17.53 |
| 1878 | 2.96 | 2.32 | 1.99 | 0.20 | 0.26 | 0.02 | 0.08 | 0.13 | 1.01 | 1.53 | 1.42 | 1.61 | 13.53 |
| 1879 | 1.42 | 6.32 | 3.15 | 1.34 | 2.94 | 0.11 | 0.31 | 0.48 | 0.79 | 0.88 | 1.24 | 2.57 | 21.55 |
| 1880 | 2.04 | 1.33 | 0.16 | 1.03 | 0.94 | 0.02 | 0.02 | 0.43 | 0.08 | 0.12 | 0.69 | 6.75 | 13.61 |
| 1881 | 6.37 | 6.23 | 0.38 | 1.29 | 0.14 | 1.82 | 0.11 | 0.23 | 0.26 | 2.67 | 0.75 | 1.67 | 21.92 |
| 1882 | 1.48 | 2.96 | 0.23 | 0.53 | 0.27 | 0.60 | 0.12 | 0.72 | 0.43 | 2.30 | 0.75 | 5.14 | 15.53 |
| 1883 | 4.83 | 0.61 | 2.32 | 1.21 | 0.54 | 0.01 | 0.00 | 0.20 | 0.01 | 0.46 | 2.19 | 1.77 | 14.15 |
| 1884 | 1.33 | 3.10 | 0.74 | 1.33 | 0.04 | 0.93 | 0.44 | 0.12 | 0.65 | 1.27 | 0.82 | 7.04 | 17.81 |
| 1885 | 1.10 | 2.88 | 0.14 | 0.31 | 0.81 | 1.01 | 0.10 | 0.03 | 0.87 | 0.28 | 1.78 | 2.64 | 11.95 |
| 1886 | 5.45 | 0.53 | 0.93 | 0.30 | 0.11 | 0.07 | 0.19 | 0.02 | 0.14 | 0.81 | 0.21 | 5.04 | 13.80 |
| 1887 | 4.01 | 1.13 | 0.79 | 0.46 | 0.32 | 0.67 | 0.07 | 0.18 | 0.36 | 0.15 | 1.06 | 3.01 | 12.21 |
| 1888 | 3.36 | 0.41 | 0.94 | 0.05 | 0.70 | 0.92 | 0.29 | 0.00 | 0.02 | 0.95 | 1.34 | 2.71 | 11.69 |
| 1889 | 0.51 | 0.04 | 1.26 | 0.42 | 0.68 | 0.29 | T. | T. | 0.16 | 0.90 | 1.27 | 2.00 | 7.51 |
| 1890 | 2.97 | 4.33 | 1.89 | 0.14 | 0.02 | 0.27 | 0.06 | 0.04 | 0.11 | 1.16 | 0.00 | 1.19 | 12.18 |
| 1891 | 1.13 | 2.47 | 0.53 | 0.01 | 0.32 | 0.51 | 0.24 | 0.11 | 0.13 | 1.14 | 1.39 | 4.14 | 12.12 |
| 1892 | 1.35 | 0.68 | 0.70 | 1.00 | 0.67 | 0.06 | 0.27 | T. | 0.14 | 0.90 | 1.16 | 5.04 | 11.97 |
| 1893 | 0.69 | 1.84 | 0.96 | 1.69 | 0.69 | 0.06 | 0.30 | 0.00 | 1.21 | 4.40 | 4.36 | 1.77 | 17.97 |
| 1894 | 4.84 | 1.83 | 3.73 | 0.64 | 0.47 | 1.15 | 0.10 | T. | 1.02 | 2.08 | 0.51 | 1.65 | 18.02 |
| 1895 | 4.72 | 0.47 | 0.65 | 0.24 | 0.94 | 0.00 | 0.32 | 0.05 | 1.14 | 0.00 | 1.20 | 4.15 | 13.88 |
| 1896 | 3.45 | 0.72 | 1.00 | 0.95 | 0.63 | 0.10 | T. | 0.28 | 0.42 | 0.60 | 5.87 | 2.74 | 16.76 |
| 1897 | 1.14 | 2.98 | 1.94 | 0.23 | 0.27 | 1.07 | 0.24 | 0.08 | 0.54 | 0.44 | 3.84 | 4.03 | 16.60 |
| 1898 | 0.82 | 0.98 | 0.30 | 0.11 | 0.03 | 0.90 | 0.17 | 0.02 | 0.85 | 0.13 | 2.13 | 1.14 | 7.58 |
| 1899 | 2.82 | 2.19 | 0.94 | 1.05 | 0.45 | 0.20 | 0.00 | 0.86 | 0.81 | 1.56 | 3.57 | 2.29 | 16.74 |
| 1900 | 1.90 | 1.94 | 1.62 | 0.42 | 0.03 | 0.47 | T. | 0.55 | 1.09 | 2.02 | 2.25 | 1.33 | 13.62 |
| 1901 | 3.46 | 4.15 | 0.68 | 0.09 | 0.39 | 0.20 | T. | 0.16 | 1.84 | 0.13 | 1.69 | 3.04 | 15.83 |
| 1902 | 1.61 | 3.79 | 0.52 | 1.82 | 3.63 | 0.13 | 0.26 | 0.00 | 0.36 | 0.78 | 3.53 | 4.00 | 17.43 |
| 1903 | 2.87 | 0.47 | 0.56 | 0.23 | 0.05 | 2.11 | 0.12 | 0.11 | 0.15 | 1.10 | 4.44 | 0.56 | 12.77 |
| 1904 | 1.52 | 4.50 | 3.10 | 0.98 | 0.09 | 0.46 | 0.40 | 0.04 | 0.61 | 1.44 | 1.01 | 1.79 | 19.94 |
| 1905 | 3.27 | 0.51 | 0.63 | 0.18 | 0.66 | 1.27 | 0.19 | 0.10 | 1.19 | 1.88 | 0.84 | 1.07 | 11.79 |
| 1906 | 1.90 | 1.67 | 1.21 | 0.11 | 0.95 | 1.05 | T. | 0.31 | 0.35 | 0.23 | 3.99 | 3.07 | 14.84 |
| 1907 | 3.92 | 3.08 | 1.30 | 1.67 | 0.41 | 0.42 | 0.22 | 0.74 | 0.29 | 0.29 | 2.22 | 5.52 | 20.08 |
| 1908 | 1.06 | 0.77 | 1.50 | 0.17 | 0.92 | 0.10 | 0.36 | 0.16 | 0.03 | 1.42 | 0.48 | 1.21 | 8.18 |
| 1909 | 2.90 | 1.41 | 0.33 | 0.08 | 0.13 | 0.13 | 0.39 | 0.00 | 1.05 | 0.83 | 4.55 | 3.09 | 14.89 |
| Mns. | 3.12 | 2.17 | 1.56 | 0.68 | 0.63 | 0.56 | 0.21 | 0.21 | 0.82 | 1.17 | 2.53 | 3.30 | 16.96 |

WAMIC, WASCO COUNTY.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1901 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.92 | ..... |
| 1902 | 1.85 | 3.91 | 0.54 | 1.36 | 0.51 | 0.05 | 0.72 | 0.00 | 0.25 | 0.80 | 3.19 | 7.27 | 20.45 |
| 1903 | 4.66 | 0.90 | 1.03 | 0.05 | 0.15 | 1.79 | 0.00 | 0.19 | 0.35 | 0.99 | 5.44 | 0.45 | 16.00 |
| 1904 | 2.31 | 4.35 | 4.53 | 2.15 | 0.05 | 0.61 | 0.36 | 0.12 | 1.09 | 1.41 | 0.89 | 2.29 | 20.16 |
| 1905 | 1.95 | 0.30 | 0.80 | 0.63 | 1.05 | 1.75 | 0.00 | 1.22 | 0.30 | 0.63 | 1.32 | 0.85 | 10.80 |
| 1906 | 1.15 | 1.37 | 1.44 | 0.51 | 1.28 | 0.75 | 0.00 | T. | 0.23 | 0.27 | 2.34 | 2.45 | 11.79 |
| 1907 | ..... | ..... | ..... | ..... | 0.74 | 0.80 | 0.39 | 0.98 | 0.96 | ..... | 1.81 | ..... | ..... |
| 1908 | ..... | ..... | ..... | ..... | 0.18 | 0.20 | 1.22 | 0.20 | 0.18 | 1.51 | 0.57 | 0.95 | ..... |
| 1909 | 3.62 | 3.14 | 0.19 | T. | 0.72 | 0.70 | ..... | ..... | ..... | 1.08 | 7.90 | 1.69 | ..... |
| Mns. | 2.59 | 2.33 | 1.42 | 0.78 | 0.58 | 0.83 | 0.38 | 0.39 | 0.48 | 0.96 | 2.93 | 2.48 | 16.15 |

Record from December 1901, to April, 1902, inclusive, was kept at Smock, a place about 8 miles southwest of Wamic and having a higher altitude and probably slightly greater rainfall.

SISTERS, CROOK COUNTY (latitude, 44° 14′ N; longitude, 121° 34′ W: elevation, 2,700 feet.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1906 | ..... | 0.79 | 1.30 | ..... | ..... | 0.45 | 0.29 | ..... | ..... | 0.17 | ..... | ..... | ..... |
| 1907 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 1908 | ..... | ..... | ..... | ..... | 0.79 | 0.49 | 0.56 | 0.48 | 0.09 | 2.71 | 1.13 | 1.03 | ..... |
| 1909 | 5.25 | 2.77 | 0.33 | 0.01 | 1.25 | 0.63 | 0.41 | 0.00 | 1.70 | 0.94 | 7.01 | 3.35 | 23.65 |

PRINEVILLE, CROOK COUNTY (latitude, 44° 18′ N; longitude, 120° 52′ W; elevation, 2,860 feet.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1897 | 1.20 | 1.14 | 1.43 | 0.51 | 0.97 | 2.53 | 0.00 | 0.30 | 0.89 | T. | 0.92 | 1.75 | 11.64 |
| 1898 | 0.36 | 0.71 | 0.99 | 0.50 | 1.61 | 0.30 | 0.11 | 0.03 | 0.03 | 0.05 | 2.60 | 0.70 | 7.99 |
| 1899 | 0.23 | 0.60 | 0.82 | 1.44 | 0.74 | 0.03 | T. | 0.70 | T. | 1.77 | 1.37 | 0.48 | 8.18 |
| 1900 | 0.84 | 0.90 | 0.15 | 0.61 | 0.33 | 0.89 | 0.03 | 0.45 | 0.73 | 1.90 | 0.25 | 0.66 | 7.74 |
| 1901 | 0.72 | 2.09 | 0.66 | T. | 0.37 | 0.10 | T. | T. | 2.42 | 0.05 | 0.15 | 1.25 | 7.81 |
| 1902 | 0.30 | 1.00 | 0.34 | 1.82 | 0.94 | 0.08 | 0.11 | 0.46 | 0.24 | 0.36 | 1.56 | 1.55 | 8.76 |
| 1903 | ..... | 0.39 | ..... | ..... | ..... | ..... | 0.20 | 0.43 | 0.09 | 0.32 | 2.08 | 0.09 | ..... |
| 1904 | 0.43 | 1.19 | 2.14 | 1.66 | 0.58 | 0.15 | 1.74 | 0.25 | 0.43 | 0.67 | 0.46 | 0.94 | 10.64 |
| 1905 | 1.87 | ..... | 0.99 | 0.32 | 0.98 | 0.90 | T. | 0.00 | 1.36 | 0.51 | 0.21 | 0.47 | ..... |
| 1906 | 0.75 | 0.36 | 1.25 | 0.44 | 1.23 | 2.10 | 0.81 | 0.10 | 0.55 | 0.51 | 0.72 | 0.53 | 9.35 |
| 1907 | 1.14 | 2.67 | 1.06 | 0.96 | 0.81 | 1.01 | 0.25 | 0.99 | T. | 0.26 | 0.78 | 3.38 | 13.31 |
| 1908 | 0.33 | 0.76* | T. | 0.33 | 0.99 | 1.07 | 0.74 | 0.23 | 0.18 | 1.30 | 0.38 | 0.48 | 7.77 |
| 1909 | 2.72 | 0.82 | T. | 0.00 | 0.42 | 0.55 | 0.61 | 0.00 | 1.54 | 0.56 | 2.25 | ..... | ..... |
| Mns. | 0.91 | 1.05 | 0.82 | 0.72 | 0.83 | 0.81 | 0.35 | 0.30 | 0.65 | 0.64 | 1.06 | 1.02 | 9.16 |

* Interpolated.

TABLE 1.—*Monthly and annual precipitation*—Continued.

POST, CROOK COUNTY.

| Year. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1908 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.43 | ..... |
| 1909 | 2.23 | 1.36 | 0.78 | 0.12 | 0.92 | 0.85 | 0.68 | 0.00 | 1.06 | 0.85 | 2.27 | 0.91 | 12.03 |

WARMSPRING, CROOK COUNTY (latitude, 44° 46′ N; longitude, 121° 35′ W; elevation, 1,600 feet.)

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1902 | ..... | ..... | ..... | ..... | 0.55 | 0.04 | 0.47 | 0.11 | 0.01 | 0.30 | 1.02 | 2.34 | ..... |
| 1903 | 2.37 | 0.27 | 0.80 | 0.26 | 0.23 | 0.65 | 0.10 | 0.21 | 0.04 | 0.38 | 3.09 | 0.23 | 8.63 |
| 1904 | 0.50 | 3.08 | 3.46 | 1.88 | 0.37 | 0.06 | 2.35 | 1.95 | 0.28 | 0.85 | 0.27 | 1.21 | 16.26 |
| 1905 | 2.01 | 0.59 | 0.92 | 0.42 | 1.27 | 0.77 | 0.53 | T. | 1.40 | 1.16 | 0.17 | 0.68 | 9.92 |
| 1906 | 1.25 | 1.02 | 2.21 | 0.23 | 0.77 | 1.36 | 0.36 | 0.00 | 0.14 | T. | 0.98 | 1.07 | 9.39 |
| 1907 | 3.31 | 2.83 | 1.59 | 0.70 | 0.83 | 0.49 | 0.38 | 0.66 | 0.12 | 0.20 | 0.74 | 4.33 | 16.18 |
| 1908 | 0.36 | 0.43 | 1.53* | 0.20 | 0.93 | 0.40 | 0.75 | 0.60 | 0.43 | 1.68 | 0.81 | 0.40 | 8.52 |
| 1909 | 3.12 | 0.94 | 0.21 | 0.00 | 0.74 | 0.87 | 0.22 | 0.00 | 1.15 | 0.62 | 2.96 | 1.93 | 12.76 |
| Mns. | 1.85 | 1.31 | 1.53 | 0.53 | 0.71 | 0.58 | 0.64 | 0.44 | 0.45 | 0.65 | 1.26 | 1.52 | 11.47 |

* Interpolated.

TABLE 2.—*Mean temperature.*

| Stations. | Length of record. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bend | 8 | 30.9 | 34.0 | 36.8 | 43.4 | 49.0 | 55.2 | 62.7 | 62.1 | 53.7 | 49.3 | 29.2 | 31.9 | 44.8 |
| Grass Valley | 7 | 28.8 | 33.5 | 40.4 | 45.2 | 49.5 | 56.1 | 64.0 | 62.1 | 55.4 | 48.2 | 38.9 | 31.2 | 46.1 |
| Heisler | 3 | 32.9 | 38.7 | 42.6 | 49.9 | 54.0 | 61.1 | 71.9 | 66.0 | 60.5 | 50.5 | 40.0 | 38.0 | 50.5 |
| Prineville | 12 | 33.2 | 36.1 | 40.5 | 46.5 | 53.1 | 58.2 | 64.8 | 63.3 | 57.0 | 49.9 | 41.7 | 36.0 | 48.4 |
| Silver Lake | 15 | 28.3 | 31.4 | 35.7 | 42.8 | 48.8 | 55.6 | 64.6 | 60.9 | 53.6 | 45.2 | 36.8 | 29.8 | 44.5 |
| The Dalles | 34 | 32.6 | 34.2 | 46.0 | 53.5 | 60.6 | 66.4 | 72.6 | 70.8 | 62.6 | 52.3 | 42.2 | 36.0 | 52.5 |
| Wamic | 6 | 32.1 | 24.8 | 40.7 | 48.0 | 52.4 | 59.7 | 66.3 | 64.1 | 58.3 | 51.0 | 41.3 | 32.1 | 47.6 |
| Warmspring | 8 | 32.8 | 37.3 | 42.8 | 49.9 | 54.9 | 62.2 | 69.9 | 68.7 | 60.9 | 51.7 | 42.0 | 33.8 | 50.6 |

TABLE 3.—*Highest temperatures by months.*

| Stations. | Length of record. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bend | 8 | 59 | 66 | 72 | 84 | 93 | 93 | 102 | 98 | 92 | 86 | 69 | 61 | 102 |
| Grass Valley | 8 | 58 | 66 | 70 | 82 | 90 | 91 | 106 | 99 | 98 | 85 | 72 | 56 | 106 |
| Heisler | 4 | 58 | 67 | 72 | 92 | 89 | 99 | 105 | 100 | 97 | 88 | 71 | 63 | 105 |
| Prineville | 13 | 76 | 73 | 83 | 92 | 96 | 98 | 105 | 99 | 93 | 89 | 82 | 76 | 105 |
| Silver Lake | 15 | 69 | 70 | 73 | 86 | 94 | 94 | 104 | 101 | 95 | 91 | 77 | 66 | 104 |
| The Dalles | 35 | 65 | 69 | 78 | 88 | 98 | 103 | 105 | 108 | 101 | 88 | 73 | 66 | 108 |
| Wamic | 8 | 64 | 69 | 72 | 84 | 89 | 98 | 105 | 112 | 97 | 85 | 81 | 56 | 112 |
| Warmspring | 8 | 69 | 68 | 72 | 90 | 94 | 101 | 109 | 105 | 97 | 90 | 75 | 63 | 109 |

TABLE 4.—*Frost data.*

| Stations. | Length of record. | Average date of first killing frost in autumn. | Average date of last killing frost in spring. | Earliest date of killing frost in autumn. | Latest date of killing frost in spring. |
|---|---|---|---|---|---|
| Bend | ..... | September 2... | January 8..... | August 14..... | January 27 |
| Crescent | ..... | ..... | ..... | ..... | ..... |
| Grass Valley | 7 | September 21.. | May 20..... | August 11..... | January 13 |
| Heisler | 3 | October 1..... | May 3..... | September 11.. | May 17 |
| Prineville | 13 | September 17.. | May 28..... | August 18..... | June 26 |
| Silver Lake | 13 | August 23..... | January 16.... | July 17..... | January 30 |
| Sisters | ..... | ..... | ..... | ..... | ..... |
| The Dalles* | 34 | November 5... | April 10..... | September 26.. | May 12 |
| Wamic | 7 | October 12..... | May 1..... | September 23.. | May 20 |
| Warmspring | 7 | September 2... | May 16..... | September 11.. | June 14 |

*Temperature of 32°, or below, used.

NOTE.—In cases where the records do not show actual frost temperatures of 26° or below have been used, as this temperature appears to be the critical one for the staple crops in the bottom lands, and hardy vegetation does not suffer greatly unless the temperature reaches 26° or goes below that mark.

The above table should not be used for comparison of frost data with similar data from other sections of the country where a temperature of 32° has been used as a limiting basis for determining the occurrence of frost, instead of 26°, as indicated above.

TABLE 5.—*Lowest temperatures by months.*

| Stations. | Length of record. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bend | 8 | −19 | −19 | −13 | 8 | 11 | 22 | 28 | 26 | 12 | 14 | − 4 | −11 | −19 |
| Grass Valley | 8 | −30 | −17 | − 4 | 16 | 11 | 25 | 31 | 28 | 20 | 15 | 7 | 1 | −30 |
| Heisler | 4 | −19 | 6 | 0 | 16 | 23 | 27 | 40 | 29 | 28 | 15 | 13 | 11 | −19 |
| Prineville | 13 | −29 | −17 | − 1 | 12 | 21 | 23 | 29 | 28 | 17 | 13 | 5 | − 5 | −29 |
| Silver Lake | 15 | −28 | −30 | −20 | 8 | 14 | 13 | 25 | 20 | 13 | 9 | −32 | −16 | −32 |
| The Dalles | 35 | −19 | −19 | − 1 | 25 | 30 | 39 | 42 | 41 | 31 | 20 | − 2 | −18 | −19 |
| Wamic | 8 | −25 | −19 | − 3 | 18 | 25 | 29 | 32 | 28 | 19 | 21 | 11 | − 4 | −25 |
| Warmspring | 8 | −32 | − 4 | 8 | 18 | 25 | 26 | 35 | 35 | 23 | 17 | 9 | − 8 | −32 |

TABLE 6.—*Average number of days with .01 inch or more of precipitation.*

| Stations. | Length of record. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bend | 7 | 10 | 8 | 9 | 4 | 5 | 5 | 3 | 2 | 4 | 4 | 8 | 8 | 70 |
| Crescent | 4 | 12 | 12 | 12 | 6 | 8 | 6 | 5 | 2 | 4 | 6 | 8 | 12 | 93 |
| Grass Valley | 8 | 6 | 4 | 5 | 2 | 4 | 4 | 2 | 2 | 2 | 4 | 7 | 7 | 49 |
| Heisler | 3 | 7 | 6 | 9 | 4 | 6 | 6 | 4 | 2 | 2 | 2 | 4 | 9 | 61 |
| Prineville | 13 | 4 | 5 | 6 | 3 | 4 | 4 | 2 | 3 | 3 | 3 | 4 | 4 | 44 |
| Silver Lake | 14 | 4 | 5 | 5 | 6 | 5 | 4 | 3 | 2 | 3 | 6 | 5 | 5 | 67 |
| Sisters | 2 | 16 | 10 | 6 | 1 | 5 | 5 | 4 | 4 | 6 | 8 | 10 | 9 | 86 |
| The Dalles | 35 | 11 | 9 | 9 | 5 | 4 | 4 | 1 | 1 | 4 | 3 | 10 | 12 | 73 |
| Wamic | 8 | 10 | 7 | 7 | 3 | 3 | 3 | 1 | 2 | 2 | 4 | 9 | 7 | 66 |
| Warmspring | 8 | 8 | 8 | 11 | 5 | 5 | 5 | 4 | 2 | 3 | 4 | 7 | 8 | 70 |

TABLE 7.—*Average depth of snowfall.*

| Stations. | Length of record. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bend | 7 | 13.5 | 9.0 | 8.0 | 1.2 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 10.8 | 45.9 |
| Crescent | 4 | 22.2 | 7.8 | 2.1 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T. | 18.5 | 52.4 |
| Grass Valley | 8 | 8.2 | 2.2 | 2.4 | T. | T. | 0.0 | 0.0 | 0.0 | 0.0 | T. | 2.1 | 6.4 | 21.3 |
| Heisler | 3 | 3.0 | 6.2 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T. | 1.2 | 11.8 |
| Prineville | 13 | 3.3 | 5.8 | 2.6 | T. | T. | T. | 0.0 | 0.0 | 0.0 | T. | 0.7 | 0.8 | 13.2 |
| Silver Lake | 14 | 5.7 | 5.9 | 4.4 | 3.2 | 0.4 | T. | 0.0 | 0.0 | 0.0 | 0.3 | 2.4 | 5.9 | 28.2 |
| Sisters | 2 | ..... | 10.6 | 4.0 | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 17.2 | ..... |
| The Dalles | 35 | 13.2 | 8.0 | 1.1 | T. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T. | 2.1 | 11.5 | 3.0 |
| Wamic | 8 | 14.9 | 13.5 | 6.8 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 6.2 | 14.4 | 56.1 |
| Warmspring | 8 | 9.7 | 5.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 5.8 | 24.2 |

TABLE 8.—*Direction of prevailing wind.*

| Stations. | Length of record. | Jan. | Feb. | Mar. | Apr. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bend | 6 | sw. | sw. | sw. | sw. | nw. | sw. | n. | sw. | sw. | sw. | sw. | sw. | sw. |
| Crescent | 4 | s. | s. | s. | s. | sw. | nw. | s. | sw. | sw. | n. | n. | s. | s. |
| Grass Valley | 8 | sw. | sw. | sw. | nw. | nw. | sw. | nw. | nw. | nw. | nw. | sw. | sw. | sw. |
| Heisler | 4 | s. | w. | nw. | nw. | nw. | nw. | nw. | nw. | nw. | nw. | nw. | sw. | nw. |
| Prineville | 7 | sw. | sw. | sw. | sw. | sw. | nw. | sw. | sw. | sw. | sw. | sw. | sw. | sw. |
| Silver Lake | 15 | sw. | sw. | sw. | sw. | sw. | sw. | sw. | w. | w. | sw. | sw. | sw. | sw. |
| Sisters | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| The Dalles | 35 | e. | w. | w. | w. | w. | w. | w. | w. | w. | w. | w. | e. | w. |
| Wamic | 8 | w. | w. | w. | w. | w. | w. | w. | w. | w. | w. | w. | w. | w. |
| Warmspring | 8 | sw. | sw. | ne. | sw. | w. | w. | nw. | nw. | nw. | nw. | sw. | nw. | nw. |

## WATER RESOURCES OF DESCHUTES RIVER DRAINAGE BASIN.

By J. C. STEVENS, District Engineer, United States Geological Survey.

Deschutes River has its source in a number of mountain lakes at the summit of the Cascades, just over the mountains from the headwaters of Willamette River, and its course is northward to the Columbia, which it enters about 15 miles above The Dalles.

The principal tributaries of Deschutes River are White, Warmsprings, Metolius, and Crooked rivers, and the West Fork of the Deschutes. All except Crooked River drain the eastern slope of the Cascades, which contributes the larger portion of the stream flow. The drainage area of the system is distributed somewhat as follows:

| | Sq. miles. |
|---|---|
| Deschutes at Bend | 1,530 |
| Deschutes above the mouth of the Crooked River | 2,520 |
| Deschutes at Sherars Bridge | 8,750 |
| Deschutes River above Lava post-office (locally known as Little River) | 720 |
| Crooked River | 2,920 |
| East Fork of Deschutes River | 200 |
| West Fork of Deschutes River | 500 |

Topographically, the area is rough and mountainous. The agricultural lands consist largely of high table lands cut by deep canyons through which the rivers flow, and small arable areas which border the streams. The soil is a coarse, disintegrated lava. The rocks of the entire area are volcanic and so peculiarly porous that the basin has an effect similar to that of a huge sponge. Deschutes River has perhaps the most remarkably uniform flow of any river comparable with it in size, and on this account its economic value is very great. At the mouth of the stream the maximum flow is six times, and at Bend only three times, the minimum. Ocular evidence of this uniformity of flow is presented by the low grass-grown banks between which the river flows throughout its upper course.

The general elevation of the lands around Bend is 3,600 feet above sea level; that of the summit of the Cascade Mountains is 5,000 to 6,000 feet. Prineville is 2,868 feet above sea level, and Paulina, near the upper portion of the Crooked River drainage basin, 3,684 feet.

The timbered portions of this drainage basin are found on the eastern slope of the Cascades, and at the headwaters of Crooked River. These areas constitute about 30 per cent of the total drainage area.

Although the winter temperatures are low, ice conditions do not effect the determination of stream flow to any extent. This is due to the fact that the waters reach the river in the form of springs. The high stages usually occur in July, and result from the melting of snow in the mountains, although occasionally floods are caused by chinooks in early spring or late fall.

## WATER SUPPLY.

The investigations of stream flow by the United States Geological Survey in this drainage area began in 1903. The territory has been somewhat inaccessible, and it has not been possible to maintain as many gaging stations as the development of the country requires. Only the flow at critical points has been determined, without any specific studies of the manner in which the water supply is contributed by the several units of the drainage basin. The results of these are summarized in the accompanying tables. More specific information can be obtained by consulting the original reports of the United States Geological Survey. The data for 1903 are contained in Water Supply Paper No. 100, 1904 in No. 135, 1905 in No. 178, 1906 in No. 214, and 1907–8 in No. 252, where special descriptions of stations are given, and more detailed information as to the discharges and the conditions under which they were obtained.

*Estimated monthly discharge of East Fork of Deschutes River at Crescent.*
*(Drainage area, 196 square miles.)*

| | Discharge in second-feet. | | | Total in acre-feet. |
|---|---|---|---|---|
| | Maximum. | Minimum. | Mean. | |
| 1905. | | | | |
| January | 131 | 60 | 76.6 | 4,710 |
| February | 104 | 41 | 74.0 | 4,110 |
| March | 92 | 60 | 64.7 | 3,978 |
| April | 81 | 60 | 65.4 | 3,892 |
| May | 92 | 70 | 74.7 | 4,593 |
| June | 76 | 46 | 62.8 | 3,737 |
| July | 76 | 19 | 35.1 | 2,158 |
| August | 36 | 25 | 28.0 | 1,722 |
| September | 31 | 25 | 25.5 | 1,517 |
| October | 41 | 28 | 31.9 | 1,962 |
| November | 41 | 10 | 23.6 | 1,404 |
| December | 104 | 10 | 45.6 | 2,804 |
| The year | 131 | 10 | 50.7 | 36,590 |
| 1906. | | | | |
| January | 146 | 29 | 88.8 | 5,460 |
| February | 146 | 72 | 97.6 | 5,420 |
| March | 110 | 60 | 80.8 | 4,970 |
| April | 140 | 49 | 89.7 | 5,340 |
| May | 174 | 81 | 124.0 | 7,620 |
| June | 146 | 90 | 110.0 | 6,540 |
| July | 100 | 42 | 65.2 | 4,010 |
| August | 49 | 30 | 37.8 | 2,320 |
| September | 49 | 30 | 36.2 | 2,150 |
| October | 60 | 30 | 35.4 | 2,180 |
| November | 77 | 30 | 52.0 | 3,090 |
| December | 68 | 42 | 52.0 | 3,200 |
| The year | 174 | 29 | 73.0 | 52,300 |
| 1907. | | | | |
| January | 174 | 64 | 89.7 | 5,520 |
| February | 395 | 110 | 183.0 | 10,200 |
| March | 174 | 90 | 104.0 | 6,400 |
| April | 245 | 81 | 184.0 | 10,900 |
| May | 245 | 146 | 195.0 | 12,000 |
| June | 216 | 90 | 151.0 | 8,980 |
| July | 110 | 49 | 76.5 | 4,700 |
| August | 56 | 42 | 47.5 | 2,920 |
| September | 42 | 42 | 42.0 | 2,500 |
| October | 42 | 33 | 35.5 | 2,180 |
| November | 52 | 33 | 35.2 | 2 090 |
| December | 160 | 33 | 68.9 | 4,240 |
| The year | 395 | 33 | 101.0 | 72,600 |
| 1908. | | | | |
| January | 81 | 46 | 58.1 | 3,570 |
| February | 109 | 52 | 70.8 | 4,070 |
| March | 100 | 36 | 60.9 | 3,740 |

*Estimated monthly discharge of Deschutes River (Little River) at Allen's ranch near Lava, Oreg.*

| | Discharge in second-feet. | | | Total in acre-feet. |
|---|---|---|---|---|
| | Maximum. | Minimum. | Mean. | |
| 1905. | | | | |
| February 17–28 | 368 | 262 | 306 | 7,283 |
| March | 382 | 283 | 319 | 19,620 |
| April | 317 | 242 | 274 | 16,300 |
| May | 317 | 252 | 278 | 17,090 |
| June | 294 | 205 | 241 | 14,340 |
| July | 196 | 115 | 141 | 8,670 |
| August | 125 | 93 | 107 | 6,579 |
| September | 97 | 89 | 90.9 | 5,409 |
| October | 115 | 97 | 100 | 6,149 |
| November | 102 | 79 | 90.6 | 5,391 |
| December | 115 | 82 | 99.2 | 6,100 |
| The period | | | | 112,900 |
| 1906. | | | | |
| January | 223 | 120 | 166 | 10,200 |
| February | 160 | 97 | 123 | 6,830 |
| March | 180 | 106 | 136 | 8,360 |
| April | 544 | 147 | 332 | 19,800 |
| May | 559 | 329 | 445 | 27,400 |
| June | 483 | 294 | 369 | 22,000 |
| July | 294 | 141 | 220 | 13,500 |
| August | 135 | 106 | 122 | 7,500 |
| September | 120 | 102 | 108 | 6,430 |
| October | 115 | 97 | 103 | 6,330 |
| November | 188 | 89 | 137 | 8,150 |
| December | 205 | 115 | 144 | 8,850 |
| The year | 559 | 89 | 200 | 145,000 |
| 1907. | | | | |
| January | 329 | 115 | 220 | 13,500 |
| February | 1,890 | 329 | 793 | 44,000 |
| March | 513 | 242 | 345 | 21,200 |
| April | 770 | 294 | 570 | 33,900 |
| May | 810 | 608 | 696 | 42,800 |
| June | 676 | 410 | 558 | 33,200 |
| July | 410 | 252 | 330 | 20,300 |
| August | 252 | 205 | 227 | 14,000 |
| September | 223 | 173 | 196 | 11,700 |
| October | 173 | 154 | 161 | 9,900 |
| November | 188 | 141 | 157 | 9,340 |
| December | 624 | 160 | 287 | 17,600 |
| The year | 1,890 | 115 | 378 | 271,000 |
| 1908. | | | | |
| January | | | *b* | 18,400 |
| February | | | *b* | 9,780 |
| March | 485 | 154 | 271 | 16,700 |
| April | 687 | 223 | 407 | 24,200 |
| May | 592 | 283 | 416 | 25,600 |
| June | 452 | 262 | 339 | 20,200 |
| July | 294 | 180 | 254 | 15,600 |
| August | 166 | 125 | 139 | 8,550 |
| September | 242 | 120 | 141 | 8,390 |
| October | 340 | 115 | 174 | 10,700 |
| November | 262 | 154 | 180 | 10,700 |
| December | 214 | 160 | 180 | 11,100 |
| The period | 687 | 115 | 248 | 180,000 |

*b* Estimated.

Under present market conditions for water power, the value of a river for this purpose is governed largely by the volume of water it carries at its minimum stage. A river, therefore, of the size of Deschutes, with the unusual uniformity of flow that obtains, has an immense value as an industrial factor. The following table used in conjunction with the discharge data given above furnishes the basis for an estimate of the water power possibilities of this stream.

*Profile of Deschutes River.*

| | Elevation | Fall between points. | Distance between points. | Fall per mile. |
|---|---|---|---|---|
| | *Feet.* | *Feet.* | *Miles.* | *Feet.* |
| Crescent Lake | 5000 | | | |
| Mouth of East Fork | 4440 | 560 | 21.5 | 26.1 |
| Rosland | 4210 | 230 | 15.8 | 14.5 |
| Bend | 3650 | 560 | 20.0 | 25.0 |
| Cline Falls | 2760 | 890 | 18.0 | 49.2 |
| Mouth of Crooked River | 1960 | 800 | 26.5 | 30.2 |
| Mouth of Trout Creek | 1155 | 805 | 25.5 | 31.5 |
| Sherar's Bridge | 690 | 465 | 40.5 | 11.4 |
| Government Dam site | 395 | 295 | 21.5 | 13.7 |
| Mouth | 156 | 239 | 19.5 | 12.3 |

From these data the total available power in the Deschutes River and its principal tributaries at the average low-water stage is found to be 1,115,000 horsepower. This assumes that

90 per cent of the fall can be utilized, and 80 per cent of theoretical power realized on water wheels. The two railroad lines now under construction in the lower 80 miles of the river's course will reduce this power somewhat, but both roads have elevated their tracks to permit the construction of three dams, one at the mouth of the river known as Moody's Dam, one at the Government Dam site 19½ miles above the mouth, and one at Sherar's Bridge 40 miles above the mouth. The ultimate development contemplated at these three power sites aggregate 139,000 horsepower. Beyond Sherar's Bridge the railroads follow the grade of the river very closely to the vicinity of Trout Creek, where both lines leave the river. After these railroads are completed, it will still be possible to develop on Deschutes River a total of 924,200 horsepower. Irrigation development in the upper portion of the river will still further reduce the water that can be used for power purposes. It has been estimated that when the irrigation requirements are satisfied, the total possibilities for power development in Deschutes River will still reach the enormous sum of 550,000 horsepower. After storage reservoirs, proposed and under construction, are completed, the available supply for power development will increase this about 100,000 horsepower, so that after the construction of all roads, development of all irrigation projects, and the construction of all reservoirs, the river will be capable of developing 650,000 horsepower. This is nearly four times the total amount of water power developed at the present time in the States of Oregon, Washington, and Idaho, combined.

*Estimated monthly discharge of West Fork of Deschutes River (Big River) near Lava, Oreg., for 1905.*

| | Discharge in second-feet. | | | Total in acre-feet. |
|---|---|---|---|---|
| | Maximum. | Minimum. | Mean. | |
| 1905. | | | | |
| February 20–28 | 1,148 | 1,123 | 1,135 | 20,260 |
| March | 1,168 | 1,103 | 1,142 | 70,220 |
| April | 1,123 | 1,074 | 1,083 | 64,440 |
| May | 1,098 | 1,074 | 1,081 | 66,470 |
| June | 1,074 | 1,038 | 1,050 | 62,480 |
| July | 1,027 | 994 | 1,007 | 61,920 |
| August | 984 | 984 | 984 | 60,500 |
| September | 994 | 944 | 961 | 57,180 |
| October | 984 | 942 | 958 | 58,900 |
| November | 932 | 902 | 920 | 54,740 |
| December | 942 | 875 | 895 | 55,030 |
| The period | | | | 632,100 |

*Estimated monthly discharge of Deschutes River at West's ranch near Lava post-office, Oreg. (Drainage area, 1240 square miles.)*

| | Discharge in second-feet. | | | Total in acre-feet. |
|---|---|---|---|---|
| | Maximum. | Minimum. | Mean. | |
| 1906. | | | | |
| July 21–31 | 1,510 | 1,430 | 1,470 | 32,100 |
| August | 1,430 | 1,360 | 1,410 | 86,700 |
| September | 1,400 | 1,360 | 1,370 | 81,500 |
| October | 1,360 | 1,290 | 1,320 | 81,200 |
| November | 1,510 | 1,290 | 1,370 | 81,500 |
| December | 1,510 | 1,320 | 1,390 | 85,500 |
| The period | | | | 448,000 |
| 1907. | | | | |
| January | 1,610 | 1,160 | 1,390 | 85,500 |
| February | 4,000 | 1,520 | 2,300 | 128,000 |
| March | 2,060 | 1,610 | 1,750 | 108,000 |
| April | 2,500 | 1,680 | 2,170 | 129,000 |
| May | 2,680 | 2,430 | 2,510 | 154,000 |
| June | 2,540 | 2,120 | 2,350 | 140,000 |
| July | 2,120 | 1,900 | 2,020 | 124,000 |
| August | 1,900 | 1,800 | 1,860 | 114,000 |
| September | 1,850 | 1,700 | 1,770 | 105,000 |
| October | 1,700 | 1,590 | 1,630 | 100,000 |
| November | 1,700 | 1,520 | 1,580 | 94,000 |
| December | 2,560 | 1,480 | 1,770 | 109,000 |
| The year | 4,000 | 1,160 | 1,920 | 1,390,000 |
| 1908. | | | | |
| January | 2,060 | 1,390 | 1,700 | 105,000 |
| February | 1,520 | 1,280 | 1,440 | 82,800 |
| March | 1,960 | 1,350 | 1,600 | 98,400 |
| April | 2,230 | 1,569 | 1,880 | 112,000 |
| May | 2,120 | 1,850 | 2,030 | 125,000 |
| June | 2,180 | 1,850 | 2,000 | 119,000 |
| July | 2,010 | 1,750 | 1,890 | 116,000 |
| August | 1,750 | 1,660 | 1,680 | 103,000 |
| September | 1,660 | 1,560 | 1,620 | 96,400 |
| October | 1,900 | 1,560 | 1,660 | 102,000 |
| November | 1,700 | 1,520 | 1,570 | 83,400 |
| December | 1,520 | 1,170 | 1,430 | 87,900 |
| The year | 2,230 | 1,170 | 1,710 | 1,240,000 |

*Estimated monthly discharge of Deschutes River at Moro (now Biggs) post-office, Oreg. (Drainage area, 9,180 square miles).*

| | Discharge in second-feet. | | | Total in acre-feet. |
|---|---|---|---|---|
| | Maximum. | Minimum. | Mean. | |
| 1898. | | | | |
| January | 8,200 | 5,960 | 6,610 | 406,433 |
| February | 10,720 | 6,240 | 7,880 | 437,633 |
| March | 8,200 | 5,750 | 6,924 | 425,740 |
| April | 8,760 | 5,750 | 7,502 | 446,400 |
| May | 7,640 | 6,520 | 7,071 | 434,779 |
| June | 7,360 | 5,750 | 6,450 | 383,802 |
| July | 6,520 | 5,415 | 5,622 | 345,683 |
| August | 5,500 | 5,33. | 5,388 | 331,295 |
| September | 5,415 | 5,265 | 5,346 | 318,109 |
| October | 5,330 | 5,265 | 5,278 | 324,532 |
| November | 7,080 | 5,265 | 5,635 | 335,306 |
| December | 5,625 | 5,050 | 5,324 | 327,360 |
| The year | 10,720 | 5,050 | 6,253 | 4,517,072 |
| 1899. | | | | |
| January | 11,560 | 5,100 | 6,881 | 423,096 |
| February | 14,080 | 5,200 | 7,624 | 423,415 |
| March | 15,480 | 6,520 | 7,920 | 486,492 |
| April | 13,800 | 7,640 | 10,832 | 644,549 |
| May | 12,400 | 8,760 | 10,440 | 641,931 |
| June | 11,280 | 9,600 | 10,543 | 627,352 |
| July | 9,600 | 7,080 | 8,570 | 526,949 |
| August | 7,080 | 5,960 | 6,628 | 407,540 |
| September | 7,080 | 5,625 | 6,263 | 372,674 |
| October | 8,760 | 5,625 | 6,265 | 385,220 |
| November | 11,560 | 6,240 | 7,127 | 424,086 |
| December | 11,560 | 8,760 | 9,907 | 609,158 |
| The year | 15,480 | 5,100 | 8,250 | 5,972,952 |
| 1906. | | | | |
| July 22–31 | 5,370 | 5,370 | 5,370 | 106,000 |
| August | ? 5,370 | 5,370 | 5,370 | 330,000 |
| September | 5,140 | 5,140 | 5,140 | 306,000 |
| October | 5,740 | 5,140 | 5,220 | 321,000 |
| November | 9,500 | 5,200 | 6,640 | 395,000 |
| December | 8,000 | 5,720 | 6,360 | 39,100 |
| The period | | | | 1,850,000 |
| 1907. | | | | |
| January | 11,900 | 6,000 | 6,780 | 417,000 |
| February | 30,600 | 7,120 | 14,100 | 783,000 |
| March | 15,800 | 7,620 | 9,760 | 600,000 |
| April | 14,500 | 8,160 | 12,100 | 720,000 |
| May | 10,800 | 8,200 | 9,090 | 559,000 |
| June | 8,100 | 6,750 | 7,330 | 436,000 |
| July | 6,750 | 5,700 | 6,290 | 387,000 |
| August | 5,850 | 5,700 | 5 710 | 351,000 |
| September | 5,700 | 5,700 | 5,700 | 339,000 |
| October | 5,700 | 5,700 | 5,700 | 350,000 |
| November | 7,900 | 5,700 | 6,020 | 358,000 |
| December | 22,200 | 6,110 | 8,800 | 541,000 |
| The year | 30,600 | 5,700 | 8,120 | 5,840,000 |
| 1908. | | | | |
| January | 8,100 | 6,190 | 7,500 | 461,000 |
| February | 6,190 | 6,000 | 6,100 | 351,000 |
| March (a) | 16,000 | | 8,700 | 535,000 |
| April | 10,300 | 7,500 | 8,630 | 514,000 |
| May | 8,520 | 6,940 | 7,430 | 457,000 |
| June (a) | | | 6,500 | 387,000 |
| July (a) | | | 6,000 | 369,000 |
| August (a) | | | 5,400 | 332,000 |
| September (a) | | | 5,400 | 321 000 |
| October (a) | | | 5,400 | 332,000 |
| November (b) | 6,000 | 5,940 | 5,990 | 356,000 |
| December | 5,980 | 5,550 | 5,750 | 354,000 |
| The period | 16,000 | | 6,570 | 4,770,000 |

## IRRIGATION.

The lands bordering the east side of Deschutes River above Crooked River are susceptible of irrigation. There are also large areas of agricultural lands along the western bank of the river below Tumalo Creek, in the vicinity of Squaw Creek, and on the Indian Reservation. The irrigation of these lands lies beyond the resources of individual effort, and must be developed by the State or by the Government, or by community or corporate investment. The water supply is ample, the land is rich, and the climate favorable for agricultural pursuits.

There has been segregated in this valley for development under the provisions of the Carey Act nearly 360,000 acres of land; of

this amount about 30,000 acres have actually been irrigated. The largest canals in operation are those of the Deschutes Irrigation and Power Company which divert water from the right bank of Deschutes River, a short distance above Bend. These canals have a common headgate, and are known as the Pilot Butte and Central Oregon canals. The maximum combined discharge of these two diversions has been about 600 second-feet. A number of other segregations have been made for reclamation under the terms of the Carey Act, and some ditches have been constructed and are in operation. The Columbia Southern Irrigating Company diverts water from Tumalo Creek; about 27,000 acres were segregated, but the water supply is insufficient for this entire area, although with the development of such storage facilities as the area affords they can doubtless all be irrigated from this stream.

## FLOOD IN THE WILLAMETTE VALLEY IN FEBRUARY AND MARCH, 1910.

By H. J. ANDREE, Assistant Observer, Portland, Oreg.

This flood was caused by very heavy precipitation during the days immediately preceding the rise and the melting of snow on the western slopes of the Cascade Mountains, also in the lower portions of the river, by the high stage of the Columbia which was more than 9.0 feet above the normal during this time.

The Willamette, at Portland, was not at a low stage at any time during the month of March and averaged over 4.0 feet higher than during any March in the past 20 years. The stage of 19.6 feet on the 5th was higher than any recorded in March since the keeping of an official record.

The heaviest rains began on February 23 and continued through to March 4, with little interruption. During that time 18.0 inches fell along the northwest coast, about 5.0 inches in the Willamette Valley proper, and from 6.0 to 10.0 inches on the western slope of the Cascade Mountains. With the exception of that on the western side of the Coast Range, practically all the run-off flowed into the Willamette causing a rapid rise late in February and reaching the highest stage, 3.0 feet above flood stage, at Eugene on March 1, and 4.6 feet above the flood stage at Portland on the 5th. Besides the water from rains, there was more snow than usual at that time of year on the western slope of the Cascades and a large portion of it melted and added its volume to the already large amount in the Willamette Valley.

The water from these rains and melting snows flowed rather evenly into the main stream over its entire length and as a result there was no particular crest. Near the end of the month there was a second period of comparatively high water, due to more than the usual amount of precipitation from the 16th to the 23d, and the gage reading was 14.8 feet at 8:00 a. m. on the 26th at Portland. A few days after the second rise the river fell to below the normal stage at all stations except Portland, where, on account of the abnormal stage of the Columbia, the Willamette remained nearly 4.0 feet above the normal at the end of the month.

The loss caused by the flood was not great. As usual, the bottom lands were flooded. At Portland, where much damage would have been occasioned to property in warehouses and basements, those interested were notified of all stages long enough in advance to enable them to remove perishable goods.

The swift currents that frequently cause heavy losses to lumbermen and interfere with shipping near Portland, did not exist during this rise as they were checked by high water in the Columbia whose confluence with the Willamette is only a few miles below.

Warnings were issued regularly from the time of the beginning of the rise until the water had fallen to below the flood stage. The highest stage at Salem was predicted within 0.2 foot 24 hours in advance, and the crest at all stations was predicted to within a few tenths of the stage actually reached. The exception was at Portland where the forecast was 0.9 foot too low; this low forecast was due to the existence of conditions not previously experienced here, namely high water in the Columbia at the time of a spring freshet in the Willamette, and it was practically impossible to accurately estimate the stage resulting from the unusual conditions, so close to the confluence of the streams. So far as is known, no losses occurred on account of this forecast as all those having only about a foot margin were advised to move valuable goods.

Warnings were also issued for the second rise at Portland. On Wednesday, March 23, a bulletin was published on the daily weather map to the effect that the river would reach 15.0 feet at Portland on Saturday the 26th. At 8 a. m. of the 26th the gage reading was 14.8 and the river was still rising, but had begun to fall before evening.

The accompanying tables show the stages of the water at the several gaging stations and the dates and maximum stages of other floods.

*Daily stages in the Willamette River freshet of February 27 to March 9, 1910, inclusive.*

| Date. | Eugene. | Harrisburg. | Albany. | Salem. | Wilsonville. | Portland. | Jefferson. | McMinnville. | Tualitan. | Estacada. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Feet.* | *Feet.* | *Feet.* | *Feet.* | *Feet.* | *Feet.* | *Feet.* | *Feet.* | *Feet.* | *Feet.* |
| February 27 a. m. | 7.8 | 5.9 | 12.4 | 12.5 | 21.8 | 10.7 | 6.7 | 26.2 | ..... | 7.8 |
| February 28 a. m. | 8.6 | 6.4 | 12.4 | 12.5 | 22.4 | 11.5 | 8.0 | 27.0 | ..... | 10.0 |
| March 1, a. m. | 11.7 | 8.3 | 13.8 | 14.4 | 22.6 | 12.4 | 10.6 | 28.0 | ..... | 12.0 |
| March 1, p. m. | 13.0 | 10.2 | 14.8 | 15.3 | 23.1 | 13.5 | 13.6 | 28.1 | ..... | 14.4 |
| March 2, a. m. | 12.0 | 10.3 | 16.6 | 18.1 | 24.6 | 15.3 | 15.0 | 28.0 | 11.4 | 14.5 |
| March 2, p. m. | 10.6 | 10.0 | 18.0 | 19.5 | 25.3 | 16.3 | 14.0 | 28.1 | 11.8 | 13.7 |
| March 3, a. m. | 10.0 | 9.2 | 20.0 | 20.8 | 27.6 | 17.5 | 11.9 | 27.3 | 12.3 | 12.6 |
| March 3, p. m. | ..... | 8.8 | 20.0 | 20.7 | 27.9 | 18.0 | 10.6 | 26.9 | 12.5 | 11.9 |
| March 4, a. m. | 9.2 | 8.0 | 18.3 | 19.6 | 28.6 | 18.7 | 9.0 | 25.3 | 12.8 | 11.0 |
| March 5, a. m. | 8.2 | 7.2 | 16.0 | 16.3 | 24.0 | 19.6 | 8.0 | 21.4 | ..... | 10.0 |
| March 6, a. m. | 7.6 | 6.5 | 12.7 | 13.1 | 22.2 | 19.3 | 7.0 | 16.4 | ..... | 9.0 |
| March 7, a. m. | 7.2 | 5.8 | 10.0 | 11.0 | 20.4 | 18.1 | 6.0 | 12.8 | ..... | 8.2 |
| March 8, a. m. | 6.6 | 5.1 | 9.4 | 9.2 | 19.0 | 16.1 | 5.4 | 10.7 | ..... | 7.7 |
| March 9, a. m. | 6.4 | 4.5 | 8.4 | 8.0 | 15.1 | 14.2 | 5.4 | 9.1 | ..... | 7.5 |

*Stages reached in 29 Willamette River freshets at Portland, Oreg.*

| Year. | Date. | Stage. | Year. | Date. | Stage. |
|---|---|---|---|---|---|
| | | *Feet.* | | | *Feet.* |
| 1880. | January 9 | 15.8 | 1896. | December 15 | 15.2 |
| 1881. | January 16 | 21.4 | 1897. | December 14 | 15.1 |
| 1881. | February 7 | 23.6 | 1899. | January 22 | *14.8* |
| 1883. | February 2 | 16.6 | 1899. | December 2 | 15.0 |
| 1885. | January 9 | 15.8 | 1900. | January 17 | 16.7 |
| 1886. | February 4 | 17.1 | 1901. | January 17 | 20.9 |
| 1887. | February 1 | 15.8 | 1901. | February 19 | 14.7 |
| 1888. | February 1 | 16.6 | 1903. | January 28 | 19.2 |
| 1890. | February 6 | 22.4 | 1907. | January 3 | 14.9 |
| 1893. | December 4 | 18.7 | 1907. | February 8 | 22.5 |
| 1894. | January 18 | 19.5 | 1907. | December 28 | 17.3 |
| 1894. | March 19 | 18.0 | 1909. | January 22 | 20.5 |
| 1895. | January 14 | 15.9 | 1909. | November 26 | 22.3 |
| 1896. | January 23 | 20.5 | 1910. | March 5 | 19.6 |
| 1896. | November 19 | 20.2 | | | |

Figs. 1 and 2 show the distribution of the rainfall producing the flood and the stages of the river at several points in its course.

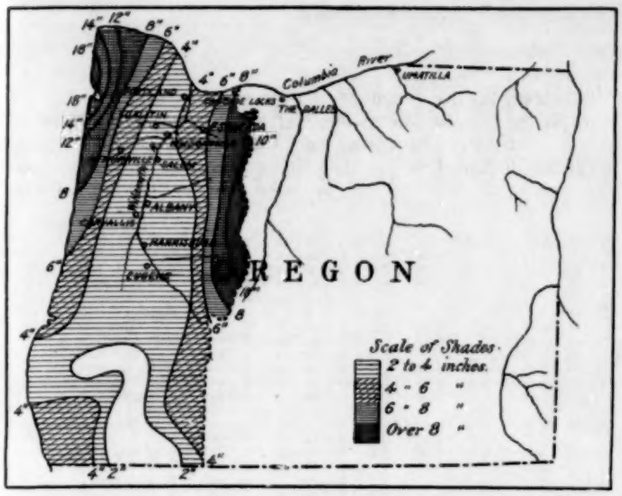


FIG. 1.—Precipitation in western Oregon from February 23 to March 7, 1910, inclusive.

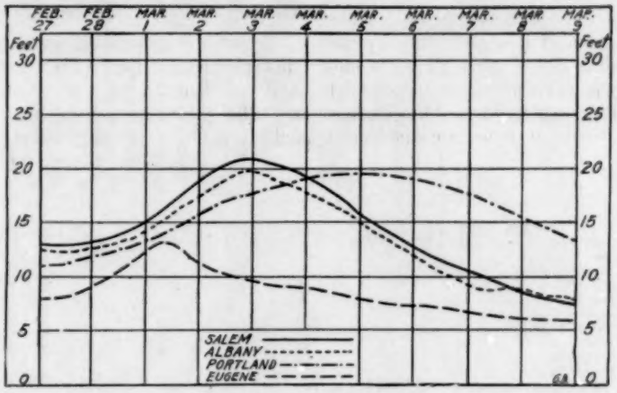


FIG. 2.—River stages, Willamette River, February 27 to March 9, 1910, inclusive.

TABLE 1.—*Climatological data for March, 1910. District No. 12, Columbia Valley.*

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | |
| *Montana.* | | | | | | | | | | | | | | | | | | | |
| Anaconda | Deer Lodge | 5,300 | 9 | 41.2 | + 9.1 | 68 | 20 | 14 | 6 | 37 | 0.38 | − 0.48 | 0.12 | 2.0 | 5 | 15 | 13 | 3 | ..... | C. D. Demond. |
| Bison | Powell | 7,240 | | | | | | | | | 0.74 | | 0.25 | 12.0 | 4 | 25 | 4 | 2 | ..... | C. H. Anderson. |
| Columbia Falls | Flathead | 3,100 | 16 | 40.4[b] | + 7.4 | 67[b] | 20 | 12[b] | 6 | 38[b] | 1.36 | + 0.12 | 0.58 | 3.0 | 3 | 9[b] | 9[b] | 11[b] | sw. | Mrs. I. M. Kennedy. |
| Como[**] | Ravalli | | 2 | 45.6 | ..... | 66 | 12† | 25 | 25 | 35 | 1.10 | ..... | 0.82 | 0.0 | 7 | 14 | 11 | 6 | ..... | Hiram Platt. |
| Darby | ...do | 3,825 | 1 | | | | | | | | | | | | | | | | | W. A. Kerlee. |
| Dayton | Flathead | 2,800 | 6 | 40.1 | ..... | 64 | 23 | 18 | 7 | 44 | | | | | | | | | | Charles Frost. |
| East Anaconda[‖] | Deer Lodge | 5,500 | 5 | 41.6 | ..... | 67 | 21 | 18 | 25 | 30 | 0.26 | ..... | 0.20 | 2.6 | 3 | 15 | 13 | 3 | w. | C. D. Demond. |
| Fortine | Lincoln | 2,975 | 4 | 39.5 | ..... | 66 | 12† | 15 | 26† | 43 | 0.56 | ..... | 0.15 | 2.0 | 9 | 13 | 10 | 8 | sw. | Mike Petery. |
| Hamilton | Ravalli | 3,575 | 7 | 46.8 | ..... | 73 | 20 | 20 | 6 | 40 | 0.74 | ..... | 0.37 | 0.0 | 5 | 16 | 14 | 1 | n. | J. B. Currie. |
| Hat Creek | Powell | 6,000 | | | | | | | | | 0.77 | ..... | 0.35 | 2.3 | 6 | 19 | 10 | 2 | w. | M. K. Landreth. |
| Kalispell | Flathead | 2,965 | 11 | 41.0 | + 8.0 | 64 | 15 | 19 | 6 | 32 | 1.45 | + 0.37 | 0.62 | 4.1 | 10 | 11 | 12 | 8 | w. | U. S. Weather Bureau. |
| Lost Creek | Deer Lodge | 5,200 | | | | | | | | | 0.42 | ..... | 0.16 | 2.3 | 5 | 20 | 9 | 2 | sw. | Frank Henault. |
| McGinnis Meadows | Lincoln | | | | | | | | | | | | | | | | | | | H. L. Beebe. |
| Missoula | Missoula | 3,225 | 32 | 43.0 | + 8.2 | 70 | 19 | 21 | 6† | 38 | 0.69 | − 0.40 | 0.21 | 0.0 | 7 | | | | sw. | U. S. Weather Bureau. |
| Ophir | Powell | 8,800 | | | | | | | | | 1.17 | ..... | 0.40 | 1.0 | 8 | 11 | 11 | 9 | w. | E. S. Wilton. |
| Ovando | ...do | 4,207 | 10 | 32.8 | + 3.7 | 58 | 20 | 14 | 8† | 37 | 1.59 | + 0.27 | 0.50 | 5.0 | 7 | 1 | 29 | 1 | w. | S. B. Muchmore. |
| Philipsburg | Granite | 5,575 | 7 | 42.2[a] | ..... | 71[a] | 20 | 14[a] | 6 | 41[a] | 0.39 | ..... | 0.13 | T. | 6 | 19[a] | 6[a] | 5[a] | sw. | G. T. Bramble. |
| Plains | Sanders | 2,475 | 12 | 42.9 | + 6.2 | 68 | 18† | 18 | 6 | 35 | 0.35 | − 0.19 | ..... | 2.0 | 3 | 22 | 0 | 9 | sw. | M. H. Pierce. |
| Pleasant Valley | Flathead | 3,500 | 3 | 38.9 | ..... | 64 | 21 | 11 | 6 | 40 | 1.60 | ..... | 0.33 | 1.5 | 11 | 13 | 11 | 7 | sw. | A. D. Stillman. |
| Polson | ...do | 2,920 | 2 | | | | | | | | | | | | | | | | | F. P. Brown. |
| St. Ignatius | Missoula | 2,700 | 4 | 42.6[a] | ..... | 66[a] | 12† | 20[a] | 6† | 38[a] | 0.81 | ..... | 0.37 | T. | 7 | 16 | 6 | 9 | ..... | U. S. Reclamation Service. |
| St. Regis | ...do | 2,650 | 2 | 41.6 | ..... | 70 | 18 | 12 | 6 | 46 | 3.40 | ..... | 1.59 | 0.0 | 7 | 7 | 24 | 0 | ne. | R. D. Lee. |
| Saltese | ...do | 3,600 | 6 | | | | | | | | 3.85 | ..... | 1.60 | 14.0 | 6 | 23 | 0 | 8 | w. | E. K. Tarbox. |
| Snowshoe | Lincoln | 4,500 | 4 | | | | | | | | | | | | | | | | | J. C. Riter. |
| Troy | ...do | 1,880 | 14 | 45.4 | + 9.0 | 73 | 15† | 18 | 29 | 44 | 1.64 | − 0.27 | 0.60 | 0.0 | 10 | 13 | 4 | 14 | se. | W. E. Milnor. |
| Upper Lake McDonald | Flathead | 3,200 | 2 | 38.4[b] | ..... | 67[b] | 12† | 11[b] | 6 | 40[b] | 1.40 | ..... | 0.74 | ..... | 5 | 12[b] | 2[b] | 15[b] | s. | F. F. Liebig. |
| *Wyoming.* | | | | | | | | | | | | | | | | | | | | |
| Afton | Uinta | 6,200 | 6 | 35.2 | + 5.8 | 62 | 22† | 7 | 10 | 33 | 1.44 | + 0.55 | 0.50 | 2.0 | 8 | 22 | 1 | 8 | ..... | A. V. Call. |
| Alta | ...do | | 1 | 36.2 | ..... | 61 | 19 | − 4 | 10 | 48 | 1.14 | ..... | 0.50 | 1.7 | 5 | 16 | 9 | 6 | s. | Mrs. Lucy Brown. |
| Bedford | ...do | 5,900 | 10 | 33.8 | + 5.1 | 59 | 21 | 4 | 10 | 42 | 1.53 | − 0.31 | 0.43 | 8.8 | 6 | 22 | 3 | 6 | w. | C. G. Heiner. |
| Snake River | Yellowstone Park | 7,000 | 4 | 32.3 | ..... | 58 | 20 | 3 | 30 | 47 | 1.30 | ..... | 0.50 | 13.0 | 6 | 17 | 11 | 3 | w. | U. S. Army. |
| *Nevada.* | | | | | | | | | | | | | | | | | | | | |
| San Jacinto | Elko | | | 40.0 | ..... | 66 | 20 | 14 | 30 | 43 | 0.19 | ..... | 0.12 | 0.0 | 2 | 19 | 4 | 8 | sw. | Moses Jones. |
| *Utah.* | | | | | | | | | | | | | | | | | | | | |
| Standrod | Boxelder | | 6 | 43.7 | ..... | 65 | 16† | 20 | 29 | 34 | 0.06 | ..... | 0.04 | 0.5 | 2 | 19 | 7 | 5 | sw. | T. B. Jones. |
| *Idaho.* | | | | | | | | | | | | | | | | | | | | |
| Atlanta | Elmore | 5,500 | 4 | | | | | | | | | | | | | | | | | H. Warder Lewis. |
| Albion | Cassia | | 8 | 45.8 | ..... | 73 | 18 | 24 | 6† | 43 | 0.02 | ..... | 0.02 | 0.5 | 1 | 22 | 7 | 2 | w. | G. A. Axline. |
| Almo | ...do | | 2 | | | | | | | | 0.10 | ..... | 0.10 | T. | 1 | 25 | 6 | 0 | s. | Wm. L. Eames. |
| American Falls | Oneida | 4,341 | | | | | | | | | | | | | | | | | | O. H. Barber. |
| Blackfoot | Bingham | 4,503 | 15 | 43.0 | + 7.4 | 73 | 21 | 19 | 9 | 43 | 0.48 | − 0.44 | 0.15 | 0.0 | 5 | 20 | 10 | 1 | sw. | E. A. Dowd. |
| Blackfoot Dam | ...do | | 2 | 33.0 | ..... | 55 | 21 | 4 | 10 | 38 | 0.74 | ..... | 0.29 | 6.0 | 5 | 16 | 15 | 0 | w. | N. W. Irsfeld. |
| Blanche | Lincoln | | 2 | | | | | | | | T. | ..... | T. | 0.0 | 0 | ..... | ..... | ..... | w. | Mrs. Belle Hess. |
| Bock's Ranch | Elmore | 3,500 | | | | | | | | | 1.78 | ..... | 0.88 | 0.0 | 6 | ..... | ..... | ..... | | William Bock. |
| Bogus Creek | Boise | 4,200 | 2 | | | | | | | | | | | | | | | | | F. P. Ingraham. |
| Boise | Ada | 2,770 | 25 | 49.0 | + 6.8 | 74 | 19 | 30 | 29 | 32 | 0.83 | − 0.61 | 0.29 | 0.3 | 7 | 13 | 9 | 9 | nw. | U. S. Weather Bureau. |
| Bonners Ferry | Bonner | 1,850 | 4 | 42.2 | ..... | 66 | 15† | 18 | 29 | 38 | 1.13 | ..... | 0.50 | 3.0 | 4 | 8 | 20 | 3 | sw. | W. H. Heideman. |
| Boulder Mine | Boise | 4,800 | | | | | | | | | 2.08 | ..... | 0.98 | 2.7 | 6 | 19 | 8 | 4 | ..... | Patrick Moriarty. |
| Buhl | Cassia | 3,800 | 4 | 51.8[b] | ..... | 79[d] | 18† | 30 | 8 | 39[d] | 0.28 | ..... | 0.28 | 0.0 | 1 | | | | w. | H. J. Idema. |
| Burke | Shoshone | 4,082 | 3 | 38.0 | ..... | 63 | 18 | 10 | 6 | 37 | 4.50 | ..... | 1.01 | 13.0 | 10 | 13 | 15 | 3 | sw. | W. Alvin Hall. |
| Caldwell | Canyon | 2,372 | 6 | 47.4 | ..... | 76 | 18 | 23 | 5 | 41 | 0.28 | ..... | 0.20 | 0.0 | 2 | 7 | 19 | 5 | w. | Prof. Wm. J. Boone. |
| Camas | Fremont | 4,815 | 2 | 31.0[i] | ..... | 69 | 19† | − 2[i] | 24 | 59[i] | 0.03 | ..... | 0.02 | T. | 2 | 12 | 9 | 10 | sw. | Mrs. Edna Faulkner. |
| Cambridge | Washington | 2,651 | 13 | 39.8 | + 2.2 | 64 | 30 | 14 | 6 | 36 | 0.95 | − 1.35 | 0.35 | 0.0 | 8 | | | | w. | Chas. H. Shepherd. |
| Chesterfield | Bannock | 5,424 | .... | 38.2 | + 9.6 | 69 | 20 | 9 | 10 | 44 | 0.65 | − 0.92 | 0.33 | 1.0 | 4 | 11 | 14 | 6 | sw. | Chas. S. West. |
| Clawson | Fremont | | | | | | | | | | 0.67 | ..... | 0.35 | 3.0 | 3 | 22 | 0 | 9 | ..... | E. J. Hopkins. |
| Cœur d'Alene | Kootenai | 2,157 | .... | | | | | | | | | | | | | | | | ..... | Jos. T. Scott. |
| Cottonwood Creek | Boise | 4,000 | | | | | | | | | | | | | | | | | | Frank Hedrick. |
| Crawford | ...do | 4,300 | 3 | 37.2[a] | ..... | 61[a] | 18 | 9[a] | 6 | 42[a] | | | | 2.0 | | | | | n. | Mrs. Gertrude Kerby. |
| Culdesac | Nez Perce | 1,520 | 2 | 48.9 | ..... | 73 | 19 | 24 | 6 | 40 | 0.86 | ..... | 0.71 | 0.0 | 3 | 17 | 10 | 4 | ..... | R. R. Richmond. |
| Deary | Latah | | | 42.5 | ..... | 70 | 13† | 17 | 6 | 45 | 3.46 | ..... | 0.90 | 0.0 | 8 | 19 | 9 | 3 | w. | H. M. Call. |
| Dent | Nez Perce | 1,350 | 5 | | | | | | | | | | | | | | | | | Emil Schuessler. |
| Driggs | Fremont | 6,007 | 3 | 35.3 | ..... | 65 | 21 | 3 | 29 | 37 | 0.65 | ..... | 0.34 | 5.7 | 3 | 13 | 10 | 8 | sw. | Walter H. Durrant. |
| Edie | ...do | | .... | 35.5 | ..... | 59 | 20 | 10 | 6 | 30 | 0.32 | ..... | 0.20 | 0.0 | 2 | 20 | 6 | 5 | n. | Geo. B. Edie. |
| Edwardsburg | Idaho | 4,500 | .... | 35.8 | ..... | 56 | 16† | 10 | 6† | 36 | | | | | | | | | | W. A. Edwards. |
| Emmett | Canyon | 2,350 | 4 | 49.8[a] | ..... | 76[a] | 19 | 28 | 29 | 36[a] | 0.46 | ..... | 0.15 | 0.0 | 5 | 27 | 0 | 4 | e. | E. L. Marvin. |
| Forney | Lemhi | | .... | 40.6 | + 8.6 | 71 | 20 | 6 | 6 | 45 | 1.10 | − 0.81 | 0.60 | 6.5 | 5 | 4 | 21 | 6 | sw. | M. B. Merritt. |
| Garden Valley | Boise | 3,600 | | | | | | | | | | | | 0.0 | | | | | nw. | Mrs. Gertrude M. Ross. |
| Garnet | Elmore | 2,575 | 11 | 52.2 | + 5.4 | 81 | 18 | 31 | 10† | 40 | 0.67 | − 0.25 | 0.60 | 0.0 | 2 | 20 | 5 | 6 | e. | Asa A. Kenison. |
| Gilbert | Nez Perce | 3,030 | | | | | | | | | | | | | | | | | | J. B. Loomis. |
| Glenns Ferry | Elmore | 2,569 | 2 | 49.2 | ..... | 79 | 17† | 24 | 30 | 45 | 0.28 | ..... | 0.19 | 0.0 | 5 | 22 | 6 | 3 | nw. | I. E. Perkins. |
| Gooding | Lincoln | 3,572 | .... | 46.7 | ..... | 76 | 19 | 21 | 30 | 42 | 0.14 | ..... | 0.10 | 0.0 | 4 | 19 | 10 | 2 | e. | John Krall, jr. |
| Grand Forks | Shoshone | 3,000 | .... | 36.0 | ..... | 57 | 15 | 7 | 6 | 40 | 6.56 | ..... | 2.06 | 4.2 | 11 | 13 | 11 | 7 | e. | Henry Kottkey. |
| Grandview | Owyhee | 2,381 | .... | 48.7 | ..... | 79 | 19 | 25 | 10† | 44 | 0.46 | ..... | 0.35 | 0.0 | 3 | 22 | 6 | 3 | nw. | N. G. Massey. |
| Green Timber | Fremont | | | | | | | | | | | | | | | | | | ..... | Otto Stegelmeier. |
| Grimes Pass | Boise | 5,200 | | | | | | | | | 0.54 | ..... | 0.23 | 0.0 | 3 | | | | ..... | Joseph M. Clarke. |
| Guffey | Owyhee | 2,381 | 2 | 51.1 | ..... | 80 | 19 | 28 | 25 | 42 | 0.21 | ..... | 0.08 | 0.0 | 5 | 24 | 1 | 6 | w. | Fred Perry. |
| Hailey | Blaine | 5,347 | 6 | 38.9 | ..... | 62 | 20† | 15 | 6 | 27 | 0.43 | ..... | 0.12 | 1.2 | 6 | 19 | 6 | 6 | sw. | U. S. Forest Service. |
| Hotspring | Owyhee | 2,752 | 5 | 50.6 | ..... | 77 | 19 | 28 | 10 | 44 | | | | 0.0 | | | | | | J. M. Waterhouse. |
| Idaho City | Boise | 4,000 | 10 | | | | | | | | 1.16 | − 1.30 | 0.68 | 0.0 | 4 | | | | ..... | Mrs. Emma Hammer. |
| Idaho Falls | Bingham | 4,742 | 16 | 42.8 | +10.3 | 74 | 19 | 20 | 10† | 46 | 0.20 | − 1.63 | 0.16 | 0.0 | 3 | 22 | 4 | 5 | ne. | Dr. T. M. Bridges. |
| Indian Valley | Washington | 2,999 | 2 | | | | | | | | | | | | | | | | | W. E. Henke. |
| Irwin | Bingham | 6,500 | | | | | | | | | | | | | | | | | | Eva Johnston. |
| Kellogg | Shoshone | 2,330 | 6 | 43.4[a] | ..... | 70[a] | 17† | 20[a] | 6 | 43[a] | 2.41 | ..... | 0.40 | 1.0 | 13 | 12 | 1 | 18 | sw. | W. McM. Huff. |
| Kirkham | Boise | | | | | | | | | | 2.21 | ..... | 1.58 | 0.0 | 4 | 14 | 9 | 8 | e. | Mrs. Josie B. West. |
| Kooskia | Idaho | 1,261 | 2 | 46.2 | ..... | 73 | 16 | 21 | 6 | 45 | 1.35 | ..... | 0.39 | 0.0 | 11 | 16 | 6 | 9 | ..... | U. S. Forest Service. |
| Lake | Fremont | 6,700 | 21 | 33.6 | +10.2 | 56 | 20† | 10 | 8† | 36 | T. | − 2.19 | T. | T. | 0 | | | | sw. | J. Sherwood. |
| Lakeview | Bonner | 2,250 | 13 | 40.9 | + 3.0 | 65 | 31 | 22 | 6 | 34 | 0.60 | − 1.75 | 0.30 | 0.0 | 3 | 11 | 4 | 16 | sw. | E. D. Faust. |
| Landore | Washington | 5,300 | 6 | 38.2 | ..... | 60 | 14† | 13 | 24 | 29 | 2.65 | ..... | 0.87 | 5.5 | 13 | 14 | 14 | 3 | ..... | Mrs. Emma L. Brown. |
| Lewiston | Nez Perce | 757 | 17 | 49.6 | + 5.6 | 72 | 19 | 30 | 6 | 33 | 1.56 | + 0.28 | 0.82 | 0.0 | 11 | 10 | 6 | 15 | e. | U. S. Weather Bureau. |
| Little Camas | Elmore | 5,000 | 2 | | | | | | | | 2.11 | ..... | 0.90 | T. | 7 | 23 | 6 | 2 | w. | Solon McCoy. |
| Long Gulch | ...do | 4,500 | | | | | | | | | 1.16 | ..... | 0.29 | 0.0 | 8 | 22 | 7 | 4 | ..... | Mrs. Elizabeth A. Hjort |
| Loon Creek | Custer | 6,000 | .... | 36.4 | ..... | 59 | 18 | 6 | 6 | 43 | 1.63 | ..... | 0.75 | 4.5 | 7 | 14 | 13 | 4 | w. | Mrs. Emma Walter. |
| Lost River | Blaine | 5,700 | | | | | | | | | | | | | | | | | | Mrs. Mary L. Lemon. |
| Lowry | Owyhee | | 2 | 47.5 | ..... | 72 | 29 | 24 | 8 | 28 | 0.05 | ..... | 0.05 | 0.5 | 1 | 4 | 26 | 1 | se. | W. D. Winter. |
| McCall | Boise | 5,025 | 5 | 35.2 | ..... | 70 | 14 | 5 | 24 | 50 | 1.22 | ..... | 0.37 | 3.0 | 7 | 15 | 7 | 9 | ..... | U. S. Forest Service. |
| Mackay | Custer | 5,897 | 3 | 39.4 | ..... | 67 | 15 | 15 | 5 | 38 | 0.09 | ..... | 0.04 | T. | 3 | 15 | 0 | 16 | nw. | Do. |
| Meadows | Washington | 3 950 | 6 | 39.4 | ..... | 61 | 12† | 13 | 6 | 42 | 1.33 | ..... | 0.35 | 1.0 | 8 | 14 | 11 | 6 | ..... | Chas. A. Hackney. |

TABLE 1.—*Climatological data for March, 1910. District No. 12*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Sky. | | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | Number of rainy days, .01 inch or more. | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Idaho*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Milner | Cassia | 4,097 | 7 | 45.8 | ..... | 79 | 24 | 20 | 6 | 49 | T. | ..... | T. | 0.0 | 0 | 22 | 9 | 0 | w. | R. A. Hanson. |
| Moscow | Latah | 2,748 | 18 | 44.7 | + 7.1 | 67 | 14† | 25 | 29 | 28 | 2.64 | + 0.58 | 0.58 | 0.0 | 14 | 13 | 9 | 9 | w. | University of Idaho. |
| Mountainhome | Elmore | 3,150 | 5 | 47.2 | ..... | 76 | 19 | 25 | 10† | 41 | 0.68 | ..... | 0.27 | 0.0 | 4 | 17 | 3 | 11 | ..... | Mrs. Ellen Manion. |
| Murtaugh | Cassia | ..... | 4 | 44.8 | ..... | 73 | 18 | 24 | 29 | 41 | T. | ..... | T. | 0.0 | 0 | 20 | 8 | 3 | w. | J. E. Steinour. |
| Nez Perce | Nez Perce‖ | 3,182 | ... | 41.8 | ..... | 64 | 19 | 18 | 6 | 34 | 1.11 | ..... | 0.31 | 0.0 | 6 | 17 | 0 | 14 | ..... | P. Mitchell. |
| Oakley | Cassia | 4,191 | 17 | 47.6 | + 9.1 | 72 | 18† | 25 | 30 | 38 | 0.00 | − 1.05 | 0.00 | 0.0 | 0 | 15 | 15 | 1 | s. | John Adams. |
| O'Hara Bar | Idaho | 1,400 | ... | 76.6 | ..... | 77 | 18 | 23 | 6 | 47 | 3.37 | ..... | 1.40 | 0.0 | 11 | 13 | 16 | 2 | ..... | U. S. Forest Service. |
| Orofino | Nez Perce | 1,027 | 5 | 47.1 | ..... | 77 | 15 | 22 | 6 | 48 | 3.23 | ..... | 0.90 | T. | 16 | 9 | 20 | 2 | ..... | Geo. Alteneder. |
| Payette | Canyon | 2,159 | 20 | 46.1 | + 3.7 | 70 | 16† | 23 | 6 | 40 | 0.51 | − 0.82 | 0.21 | T. | 4 | 13 | 7 | 11 | n. | E. F. Allen. |
| Pebble | Bannock | 5,277 | ... | 39.1 | ..... | 66 | 19† | 11 | 10 | 43 | 0.51 | ..... | 0.18 | 0.0 | 5 | 16 | 12 | 3 | sw. | Mrs. Fannie Say. |
| Pierson | Custer | 7,000 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.19 | ..... | 0.78 | 6.0 | 4 | ..... | ..... | ..... | ..... | David P. Clarke. |
| Pine | Elmore | 4,100 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.37 | ..... | 0.70 | 0.0 | 7 | 20 | 5 | 6 | ..... | Mrs. Jennie Potter. |
| Placerville | Boise | 4,200 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | James McDevitt. |
| Pleasant Valley | Ada | 3,000 | 3 | 47.1 | ..... | 74 | 18† | 28 | 24† | 37 | 0.81 | ..... | 0.44 | T. | 5 | 21 | 6 | 4 | se. | C. E. Friedrich. |
| Pocatello | Bannock | 4,483 | 11 | 46.0 | + 9.1 | 70 | 21 | 26 | 29 | 37 | 0.64 | − 1.11 | 0.23 | T. | 5 | 15 | 9 | 7 | se. | U. S. Weather Bureau. |
| Pocatello Nursery | do | 5,396 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Mrs. Anna M. Wrensted. |
| Poplar | Bingham | ..... | 2 | 42.4 | ..... | 73 | 18 | 19 | 30 | 45 | 0.67 | ..... | 0.32 | T. | 4 | 19 | 6 | 6 | sw. | Stanley Bybee. |
| Porthill | Bonner | 1,665 | 22 | 40.9 | + 6.1 | 60 | 21 | 21 | 6 | 31 | 1.28 | − 0.10 | 0.55 | 0.0 | 6 | 14 | 10 | 7 | sw. | H. A. French. |
| Powers Ranch | Boise | 4,300 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.94 | ..... | 0.33 | 1.5 | 4 | 19 | 8 | 4 | w. | Mrs. Mona B. Powers. |
| Pyle Creek | do | 3,100 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.61 | ..... | 0.25 | 0.0 | 5 | 17 | 9 | 5 | ne. | Walter L. Cole. |
| Rattlesnake Creek | Elmore | 4,000 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.76 | ..... | 0.80 | T. | 7 | 11 | 14 | 6 | w. | Richard M. Green. |
| Ruby Creek | Boise | 4,400 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.79 | ..... | 0.82 | 0.0 | 6 | 8 | 19 | 4 | w. | O. A. Hatter. |
| Rupert | Lincoln | 4,204 | 4 | 45.4 | ..... | 73 | 18 | 14 | 29 | 40 | 0.10 | ..... | 0.10 | 0.0 | 1 | 25 | 4 | 2 | sw. | Will Parry. |
| Salmon | Lemhi | 4,040 | 5 | 42.6 | ..... | 75 | 20 | 20 | 6† | 43 | 0.47 | ..... | 0.28 | T. | 4 | 19 | 8 | 4 | w. | E. K. Abbott. |
| Salmon River Dam | Twin Falls | ..... | 2 | 45.8 | ..... | 69 | 18 | 25 | 24 | 34 | 0.31 | ..... | 0.11 | T. | 5 | 15 | 10 | 6 | s. | Arch M. Gilbert. |
| Sheep Hill | Boise | 5,000 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.55 | ..... | ..... | 0.0 | ..... | ..... | ..... | ..... | ..... | Clifford M. Gardner. |
| Shoshone | Lincoln | 3,968 | 2 | 45.2 | ..... | 71 | 18 | 23 | 30 | 39 | 0.22 | ..... | 0.08 | 0.0 | 5 | 13 | 18 | 0 | e. | O. A. Truman. |
| Silver City | Owyhee | 6,280 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.97 | ..... | 0.30 | 1.2 | 7 | 18 | 8 | 5 | s. | A. D. Bradfield. |
| Smith Prairie | Elmore | 5,200 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.24 | ..... | 0.63 | T. | 5 | ..... | ..... | ..... | ..... | Wm. W. Newell. |
| Soldier | Blaine | 5,200 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | W. W. Leek. |
| Sugar | Fremont | ..... | 3 | 38.0 | ..... | 70 | 20† | 13 | 10 | 39 | 0.44 | ..... | 0.18 | 1.0 | 6 | 15 | 7 | 9 | sw. | Geo. F. Webb. |
| Sunnyside | Elmore | ..... | ... | 46.4 | ..... | 74 | 19 | 23 | 30 | 40 | 0.85 | ..... | 0.40 | 0.0 | 4 | ..... | ..... | ..... | se. | E. A. Wilmot. |
| Tilden | Bingham | 4,420 | 2 | 43.5 | ..... | 73 | 18 | 20 | 9† | 44 | 0.20 | ..... | 0.20 | 0.0 | 1 | 21 | 8 | 2 | sw. | Mrs W. A. Edwards. |
| Tripod Mountain | Boise | 4,300 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.90 | ..... | 0.44 | 3.7 | 3 | 17 | 9 | 5 | se. | Mrs. Verna Paddock. |
| Twin Falls | Twin Falls | 3,825 | 5 | 47.2 | ..... | 76 | 19 | 25 | 10 | 41 | 0.16 | ..... | 0.07 | 0.0 | 4 | 9 | 22 | 0 | w. | J. A. Waters. |
| Vernon | Fremont | ..... | 13 | 37.2 | + 7.6 | 64 | 21 | 15 | 9 | 32 | 0.56 | − 1.16 | 0.28 | 1.5 | 3 | 3 | 8 | 20 | e. | A. M. Slatery. |
| Wallace | Shoshone | 2,728 | 3 | 41.3 | ..... | 64 | 19 | 19 | 6 | 34 | 5.03 | ..... | 1.47 | ..... | 16 | ..... | ..... | ..... | e. | U. S. Weather Bureau. |
| Wendell | Lincoln | 3,400 | 2 | 47.5 | ..... | 76 | 18† | 21 | 30 | 40 | 0.15 | ..... | 0.11 | 0.0 | 2 | 20 | 11 | 0 | w. | Chas. L. Dingler. |
| *Washington.* | | | | | | | | | | | | | | | | | | | | |
| Aberdeen | Chehalis | 162 | 19 | 48.2 | + 4.4 | 71 | 12 | 31 | 5 | 30 | 6.59 | − 1.74 | 2.03 | 0.0 | 17 | 0 | 25 | 6 | w. | Carl S. Weatherwax. |
| Anacortes | Skagit | 60 | 16 | 44.9 | ..... | 66 | 13 | 31 | 25 | 31 | 2.29 | − 0.09 | 0.50 | 0.0 | 18 | 7 | 22 | 2 | ..... | Douglas Allmond. |
| Baker | do | 200 | 4 | 46.6 | ..... | 79 | 13 | 31 | 6† | 47 | 5.48 | ..... | 1.28 | ..... | 12 | 10 | 4 | 17 | ..... | Robt. M. White. |
| Bellingham | Whatcom | 60 | 15 | 46.3 | + 2.2 | 62 | 15 | 30 | 25† | 27 | 3.45 | + 0.74 | 0.80 | 0.0 | 11 | 13 | 8 | 10 | ..... | Sanford B. Mayhew. |
| Blaine | do | 53 | 13 | 44.6 | + 4.4 | 61 | 18 | 30 | 25† | 27 | 3.47 | − 0.16 | 0.60 | 0.0 | 15 | 10 | 7 | 14 | sw. | John W. Sheets. |
| Blewett | Chelan | 2,200 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | John Burmeister. |
| Bremerton | Kitsap | ..... | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.82 | ..... | 0.52 | 0.0 | 14 | ..... | ..... | ..... | ..... | U. S. Navy Yard. |
| Brewster | Okanogan | ..... | ... | 45.6 | ..... | 71 | 15 | 24 | 6 | 43 | 0.65 | ..... | 0.28 | 0.0 | 5 | 12 | 13 | 6 | s. | Mrs. H. F. Bertram. |
| Bumping Lake | Yakima | ..... | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | U. S. Reclamation Service. |
| Cashmere | Chelan | ..... | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Valley Power Co. |
| Cedar River | King | ..... | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.90 | ..... | 1.02 | T. | 15 | 10 | 5 | 16 | ..... | George Landsburg. |
| Centralia | Lewis | 212 | 17 | 49.4 | + 5.4 | 78 | 13 | 27 | 6 | 41 | 5.78 | + 1.56 | 2.36 | T. | 14 | 8 | 16 | 7 | s. | I. S. Turner. |
| Cheney | Spokane | 2,351 | 11 | 45.8 | ..... | 72 | 12 | 16 | 27 | 50 | 0.97 | − 0.20 | 0.22 | 0.0 | 5 | 16 | 9 | 6 | sw. | Northern Pacific Ry. |
| Clealum | Kittitas | 1,930 | 11 | 40.6 | + 3.3 | 67 | 15 | 9 | 6 | 42 | 3.84 | + 1.36 | 1.73 | T. | 10 | 20 | 9 | 2 | sw. | J. A. Balmer. |
| Clearbrook | Whatcom | 140 | 7 | 45.4 | ..... | 73 | 13 | 24 | 25 | 41 | 5.61 | ..... | 1.84 | 0.0 | 12 | 5 | 14 | 12 | ne. | Geo. Gibbs. |
| Clearwater | Jefferson | 135 | 14 | 43.9 | + 0.4 | 60 | 16† | 30 | 6† | 19 | 8.75 | − 4.08 | 2.20 | 0.0 | 17 | 14 | 10 | 7 | ..... | A. Ritchie. |
| Colfax | Whitman | 2,300 | 21 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | W. H. James. |
| Colville | Stevens | 1,635 | 10 | 44.2 | + 7.9 | 75 | 12† | 22 | 6 | 48 | 1.12 | − 0.24 | 0.41 | 0.0 | 6 | 15 | 6 | 10 | sw. | W. L. Sax. |
| Conconully | Okanogan | 2,300 | 10 | 43.5 | + 7.9 | 71 | 15 | 23 | 6 | 39 | 0.89 | − 0.78 | 0.51 | 0.0 | 2 | 16 | 6 | 9 | ..... | Wm. Baines. |
| Cowiche | Yakima | ..... | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | U. S. Reclamation Service. |
| Crescent | Lincoln | 2,250 | 10 | 44.0 | + 5.7 | 69 | 16 | 24 | 25 | 37 | 0.99 | − 0.33 | 0.42 | ..... | 7 | 20 | 9 | 2 | sw. | Otto Wollweber. |
| Davenport | do | 2,450 | 1 | 44.4 | ..... | 67 | 15† | 25 | 29 | 32 | 1.24 | ..... | 0.39 | 0.0 | 9 | 19 | 9 | 3 | sw. | W. H. Reed. |
| Dayton | Columbia | 1,700 | 24 | 49.6 | + 6.6 | 72 | 13† | 30 | 29 | 35 | 3.41 | + 1.07 | 0.86 | 0.0 | 11 | 11 | 11 | 9 | sw. | W. W. Hendron. |
| Detroit | Mason | 30 | 2 | 47.4 | ..... | 69 | 12† | 26 | 6† | 35 | 3.79 | ..... | 1.36 | 0.0 | 13 | 12 | 11 | 8 | sw. | Walter O. Eckert. |
| Dixie | Walla Walla | 5,000 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 5.73 | ..... | 1.80 | 6.0 | 12 | 10 | 4 | 17 | sw. | T. Z. Andrews. |
| Duckabush | Jefferson | 380 | 2 | 45.9[c] | ..... | 67[c] | 13† | 28[c] | 25 | 37 | 3.27 | ..... | 0.80 | 2.0 | 17 | 6[a] | 18[a] | 6[a] | sw. | E. J. Finch. |
| East Sound | San Juan | 500 | 15 | 45.8 | + 3.9 | 62 | 13† | 30 | 6 | 23 | 2.90 | + 0.18 | 0.55 | 0.0 | 14 | 16 | 11 | 4 | nw. | Benj. E. Harrison. |
| Ellensburg | Kittitas | 1,571 | 22 | 44.8 | + 5.5 | 72 | 15 | 20 | 6 | 44 | 0.88 | + 0.31 | 0.25 | 0.0 | 5 | 19 | 7 | 5 | nw. | R. Lee Barnes. |
| Ephrata | Grant | 1,265 | 7 | 45.6 | ..... | 70 | 8† | 22 | 1† | 45 | ..... | ..... | ..... | ..... | ..... | 13 | 8 | 10 | ..... | T. J. Cook. |
| Forks | Clallam | 480 | 1 | 46.6[a] | ..... | 70[a] | 15 | 30[a] | 6† | 30[a] | 8.85 | ..... | 2.02 | T. | 22 | 6 | 9 | 16 | s. | E. A. Markham. |
| Fort Simcoe | Yakima | 1,427 | 16 | 46.7 | + 4.5 | 71 | 14† | 19 | 5 | 40 | 0.50 | − 0.51 | 0.50 | 0.0 | 1 | 21 | 6 | 4 | ..... | Frank C. Hill. |
| Goat Lake | Shohomish | 2,900 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 7.58 | ..... | 1.49 | 18.5 | 15 | ..... | ..... | ..... | ..... | C. M. Mackintosh. |
| Gold Creek | Yakima | 2,600 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.16 | ..... | 0.98 | 1.5 | 4 | 13 | 11 | 7 | w. | John W. Anderson. |
| Goldendale | Klickitat | 1,600 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Klickitat Co. Abstract Co. |
| Granite Falls | Snohomish | 397 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.36 | ..... | 0.78 | ..... | 15 | 8 | 11 | 12 | nw. | C. H. Cleaver. |
| Hatton | Adams | 1,100 | 5 | 48.7 | ..... | 74 | 14 | 24 | 29 | 40 | 0.76 | ..... | 0.40 | 0.0 | 5 | 15 | 7 | 9 | sw. | Dr. A. V. Marion. |
| Huntsville | Columbia | 1,400 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.44 | ..... | 0.52 | 0.0 | 8 | 16 | 9 | 6 | ..... | Dr. B. Hill. |
| Irene Mountain | Okanogan | 3,015 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.06 | ..... | 0.74 | 0.3 | 4 | 14 | 10 | 7 | sw. | Manda Shain. |
| Kennewick | Benton | 367 | 15 | 54.0[b] | + 7.2 | 88[b] | 15 | 29[b] | 25 | 44[b] | 0.81 | + 0.40 | 0.75 | 0.0 | 3 | ..... | ..... | ..... | ..... | L. W. Soth. |
| Kettle Falls | Stevens | 1,265 | 1 | 45.4 | ..... | 73 | 16 | 24 | 29 | 42 | 1.44 | ..... | 0.76 | 0.0 | 7 | 10 | 15 | 6 | ..... | Harry H. Cole. |
| Kiona | Benton | 430 | 5 | 51.2 | ..... | 74 | 16† | 26 | 25 | 40 | 0.81 | ..... | 0.64 | 0.0 | 4 | 29 | 0 | 2 | sw. | Dr. F. S. Hedger. |
| Kosmos | Lewis | 775 | 4 | 46.4 | ..... | 80 | 13 | 28 | 25† | 48 | 6.39 | ..... | 3.82 | 0.0 | 15 | 6 | 24 | 1 | nw. | J. A. Ulsh. |
| La Center | Clarke | 250 | 13 | 46.9 | + 3.9 | 71 | 12 | 27 | 6† | 37 | 2.16 | − 3.25 | 0.60 | T. | 12 | 14 | 11 | 6 | sw. | Joseph Brothers. |
| La Crosse | Whitman | 1,400 | 1 | 48.2 | ..... | 72 | 16 | 26 | 29 | 38 | 1.85 | ..... | 0.75 | 0.0 | 8 | 16 | 11 | 4 | w. | M. E. Schreck. |
| Lake Clealum | Kittitas | 2,171 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.57 | ..... | 0.46 | T. | 10 | 10 | 2 | 19 | nw. | U. S. Reclamation Service |
| Lake Kachess | do | 2,235 | 2 | 39.0 | ..... | 63 | 15 | 12 | 6 | 38 | 5.82 | ..... | 1.90 | 18.0 | 13 | 11 | 15 | 5 | e. | Do. |
| Lake Keechelus | do | 2,479 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 8.41 | ..... | 3.00 | 4.0 | 15 | 8 | 3 | 20 | ..... | Do. |
| Lakeside | Chelan | 1,116 | 19 | 45.2 | + 5.4 | 64 | 30 | 26 | 6 | 29 | 1.25 | + 0.32 | 0.62 | 0.0 | 6 | 6 | 20 | 5 | w. | W. H. Van Meter. |
| Laurel | Klickitat | 1,900 | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.99 | ..... | 1.40 | 0.0 | 7 | 13 | 16 | 2 | w. | Mrs. Minnie E. Strout. |
| Laurier | Ferry | ..... | ... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Mrs. J. S. Myers. |
| Lester | King | 1,614 | 6 | 44.2 | ..... | 71 | 14† | 23 | 7 | 40 | 6.00 | ..... | 2.55 | 2.0 | 13 | 12 | 7 | 12 | w. | W. W. Clabaugh. |
| Lone Tree | Chehalis | 9 | 1 | 47.0 | ..... | 61 | 11 | 35 | 6 | 18 | 5.56 | ..... | 1.53 | 0.0 | 20 | 3 | 9 | 19 | nw. | U. S. A. Engineer Corps. |
| Longmires Springs | Pierce | 2,800 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | U. S. Forest Service. |
| Lost Creek | Okanogan | 3,125 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.53 | ..... | 1.03 | 0.0 | 3 | 11 | 14 | 6 | sw. | P. H. Leese. |
| Lyle | Klickitat | 600 | 17 | 44.4 | ..... | 55 | 29 | 33 | 9 | 12 | T. | ..... | T. | 0.0 | 0 | 25 | 5 | 1 | w. | Wm. Morginson. |
| McCumber's Ranch | Yakima | 2,182 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.20 | ..... | 2.20 | ..... | 13 | 10 | 18 | 3 | sw. | Mrs. Mary McCumber. |
| Mottinger | Benton | 307 | 10 | 53.3 | + 5.0 | 74 | 14† | 28 | 6 | 35 | 1.53 | + 0.63 | 0.86 | 0.0 | 6 | 25 | 2 | 4 | w. | G. H. Mottinger. |
| Mount Pleasant | Skamania | 650 | 10 | 51.2 | + 5.9 | 72 | 13 | 34 | 29 | 31 | 4.21 | − 1.68 | 0.95 | 0.0 | 18 | 15 | 9 | 7 | w. | F. M. Grout. |

TABLE 1.—*Climatological data for March, 1910. District No. 12*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | |
| *Washington*—Cont'd. | | | | | | | | | | | | | | | | | | | |
| Moxee | Yakima | 1,000 | 18 | 48.8 | + 6.6 | 76 | 14 | 19 | 25 | 44 | 0.25 | − 0.33 | 0.06 | 0.0 | 6 | 12 | 16 | 3 | ..... | Henry B. Scudder. |
| Newport | Stevens | ..... | ..... | 41.8 | ..... | 70 | 14 | 19 | 6 | 45 | 1.33 | ..... | 0.34 | T. | 8 | 12 | 15 | 4 | sw. | Chas. M. Talmadge. |
| North Head | Pacific | 211 | 8 | 46.0 | + 1.1 | 59 | 11 | 35 | 6 | 17 | 4.24 | − 1.01 | 2.65 | 0.0 | 20 | 4 | 13 | 14 | se. | U. S. Weather Bureau. |
| Northport | Stevens | 1,950 | 11 | 42.0 | ..... | 65 | 14† | 19 | 5 | 39 | 1.23 | − 0.08 | 0.55 | 0.8 | 5 | 16 | 6 | 9 | ..... | John Palm. |
| North Yakima | Yakima | 1,076 | 1 | 49.7 | ..... | 74 | 16 | 25 | 6 | 36 | 0.21 | ..... | 0.08 | 0.0 | 4 | 22 | 7 | 2 | s. | Albert Bender. |
| Nutland | Klickitat | ..... | 1 | 50.6 | ..... | 72 | 16 | 26 | 25 | 29 | 0.09 | ..... | 0.08 | 0.0 | 2 | ..... | ..... | ..... | ..... | J. R. Shepard. |
| Odessa | Lincoln | 1,540 | 7 | 47.8 | ..... | 75 | 13 | 26 | 6† | 44 | 0.60 | ..... | 0.30 | 0.0 | 3 | 15 | 10 | 6 | sw. | Wm. U. Neeley. |
| Olga | San Juan | 50 | 20 | 45.6 | + 2.4 | 60 | 12† | 32 | 5† | 22 | 2.54 | + 0.08 | 0.51 | 1.1 | 15 | 11 | 8 | 12 | sw. | Cecil S. Willis. |
| Olympia | Thurston | 200 | 32 | 48.2 | + 3.9 | 74 | 13 | 26 | 6 | 39 | 5.60 | + 0.41 | 1.62 | 0.0 | 13 | 3 | 17 | 9 | n. | M. O'Connor. |
| Omak | Okanogan | ..... | 1 | 47.2[m] | ..... | 72[m] | 18 | 26[l] | 6† | 38[m] | ..... | ..... | ..... | ..... | ..... | 16[l] | 3[l] | 6[l] | s. | Wm. G. Tait. |
| Oroville | do | 922 | 1 | 47.8 | ..... | 69 | 13† | 29 | 6 | 36 | 1.48 | ..... | 1.00 | 0.0 | 5 | 12 | 14 | 5 | n. | A. M. Dufield. |
| Peola | Garfield | 5,000 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3.20 | ..... | 0.95 | 4.0 | 13 | 12 | 8 | 11 | sw. | Samuel Gruell, sr. |
| Pomeroy | do | 1,500 | 18 | 48.5 | + 6.4 | 72 | 14† | 24 | 29 | 38 | 1.50 | − 0.56 | 0.65 | 0.0 | 4 | 14 | 14 | 3 | w. | Peter McClung. |
| Port Crescent | Clallam | 259 | 15 | 42.7 | + 2.2 | 60 | 12 | 28 | 6 | 27 | 2.60 | − 1.32 | 0.57 | 0.5 | 16 | 2 | 19 | 10 | s. | U. S. Weather Bureau. |
| Port Townsend | Jefferson | 80 | 20 | 46.6 | + 2.2 | 61 | 12† | 33 | 5† | 20 | 1.72 | − 0.25 | 0.44 | 0.0 | 12 | 7 | 8 | 16 | w. | Frank Plummer. |
| Pullman | Whitman | 2,550 | 18 | 45.9[e] | + 8.0 | 68 | 14 | 26[e] | 6 | 31[e] | 1.35 | − 0.90 | 0.70 | 0.0 | 4 | 14 | 4 | 13 | sw. | State Agricultural College |
| Quinault | Chehalis | 300 | 3 | 45.5 | ..... | 67 | 15 | 30 | 24† | 29 | 8.81 | ..... | 1.90 | 0.0 | 21 | 6 | 14 | 11 | w. | A. V. Higley. |
| Republic | Ferry | 2,628 | 10 | 41.0 | + 5.3 | 71 | 15 | 19 | 6† | 44 | 1.22 | ..... | 0.64 | 0.0 | 7 | 18 | 4 | 9 | nw. | Geo. B. Stocking. |
| Rex Creek | Chelan | 1,135 | 3 | 44.8[l] | ..... | 62[e] | 14† | 25[b] | 6 | 28[l] | 1.20 | ..... | 0.78 | T. | 3 | 11[d] | 6[d] | 10[d] | nw. | James W. Nicol. |
| Ritzville | Adams | 1,825 | 11 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.12 | + 0.33 | 0.61 | ..... | 5 | ..... | ..... | ..... | ..... | Northern Pacific Ry. |
| Rock Lake | Whitman | 1,750 | 4 | 46.0[b] | ..... | 69[b] | 13† | 28[b] | 4 | 35[b] | 1.09 | ..... | 0.65 | 0.0 | 4 | 16 | 7 | 8 | s. | P. M. Ramsey. |
| Rosalia | do | 2,425 | 18 | 45.6 | + 7.9 | 67 | 15† | 23 | 25 | 27 | 2.07 | + 0.38 | 0.76 | 0.0 | 10 | 13 | 10 | 8 | sw. | Hans Mumm. |
| Russells Ranch | Yakima | 2,870 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4.71 | ..... | 1.60 | 1.2 | 8 | 13 | 10 | 8 | sw. | Maggie M. Russell. |
| Scenic Hot Springs | King | 2,021 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. V. Prosser. |
| Seattle | do | 123 | 19 | 47.6 | + 3.4 | 67 | 16 | 33 | 25 | 26 | 1.80 | − 1.80 | 0.42 | 0.0 | 15 | 4 | 15 | 12 | s. | U. S. Weather Bureau. |
| Sedro-Wooley | Skagit | 38 | 13 | 51.0 | + 6.9 | 78 | 12 | 30 | 25 | 44 | 4.06 | − 0.33 | 1.06 | 0.0 | 16 | 7 | 14 | 10 | ..... | Mrs. H. L. Devin. |
| Sixprong | Klickitat | 1,240 | 3 | 50.8 | ..... | 74 | 14 | 30 | 6† | 33 | 0.50 | ..... | 0.30 | 0.0 | 5 | 15 | 5 | 11 | sw. | C. E. Comstock. |
| Skagit Power Dam | Whatcom | 123 | ..... | 41.6 | ..... | 61 | 14† | 28 | 25 | 29 | 6.40 | ..... | 1.81 | 6.0 | 19 | 10 | 1 | 20 | ..... | Skagit Power Co. |
| Snohomish | Snohomish | 50 | 16 | 46.7 | + 3.1 | 69 | 13 | 28 | 6 | 38 | 2.49 | − 1.92 | 0.40 | 0.0 | 15 | 10 | 8 | 13 | nw. | Warren Hodge. |
| Snoqualmie Falls | King | 667 | 11 | 46.9 | + 3.4 | 74 | 13 | 27 | 6 | 40 | 6.76 | + 1.39 | 1.29 | 0.0 | 19 | 19 | 0 | 12 | ..... | O. N. Wiswell. |
| Snyders Ranch | Okanogan | 2,200 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.63 | ..... | 1.10 | 13.0 | 6 | 10 | 16 | 5 | nw. | Geo. M. Snyder. |
| South Bend | Pacific | 16 | 15 | 47.3 | + 2.1 | 70 | 21 | 28 | 6 | 25 | 11.25 | + 2.45 | 3.90 | T. | 21 | 12 | 2 | 17 | w. | Miss Winifred Eichner. |
| Spokane | Spokane | 1,943 | 29 | 46.2 | + 7.3 | 69 | 15 | 25 | 25 | 34 | 0.78 | − 0.73 | 0.41 | T. | 10 | 7 | 10 | 14 | sw. | U. S. Weather Bureau. |
| State University | King | 170 | 1 | 47.0 | ..... | 70 | 13 | 30 | 6 | 32 | 1.87 | ..... | 0.56 | 0.0 | 15 | 14 | 3 | 14 | s. | University of Washington. |
| Stokes Ranch | Okanogan | 2,670 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.73 | ..... | 0.55 | 9.0 | 3 | 18 | 8 | 5 | se. | Amos Stokes. |
| Sullivan Lake | Stevens | 2,700 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1.50 | ..... | 0.55 | 0.4 | 8 | 11 | 5 | 15 | ..... | U. S. Forest Service. |
| Sumner | Pierce | 77 | 2 | 48.4 | ..... | 71 | 11† | 26 | 6 | 36 | 4.29 | ..... | 1.20 | T. | 19 | 10 | 8 | 13 | sw. | H. E. Thompson |
| Sunnyside | Yakima | 740 | 15 | 49.9 | + 6.9 | 75 | 14 | 22 | 6 | 43 | 0.43 | + 0.06 | 0.31 | 0.0 | 4 | 16 | 11 | 4 | sw. | U. S. Reclamation Service. |
| Tacoma | Pierce | 213 | 24 | 47.6 | + 3.4 | 70 | 13 | 28 | 6 | 32 | 2.90 | − 1.08 | 1.17 | T. | 15 | 11 | 11 | 9 | sw. | U. S. Weather Bureau. |
| Tatoosh Island | Clallam | 86 | 25 | 45.0 | + 2.1 | 57 | 16 | 35 | 5 | 14 | 3.92 | − 4.65 | 0.61 | T. | 21 | 2 | 9 | 20 | s. | Do. |
| Tieton | Yakima | 2,000 | 1 | 42.2 | ..... | 64 | 16 | 15 | 6 | 32 | 2.87 | ..... | 1.29 | 2.1 | 8 | 21 | 3 | 7 | w. | U. S. Reclamation Service. |
| Touchet | Walla Walla | 556 | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | D. W. Dorrance. |
| Touchet Ridge | Columbia | 2,500 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | R. H. King. |
| Trinidad | Grant | 900 | 6 | 49.9 | ..... | 72 | 15 | 27 | 6 | 32 | 0.31 | ..... | 0.22 | 0.0 | 3 | 25 | 2 | 4 | nw. | J. C. Wheeler. |
| Twisp | Okanogan | 1,619 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | J. S. Allen, jr. |
| Tyee | Chelan | 2,000 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.91 | ..... | 0.62 | 2.0 | 5 | 10 | 12 | 9 | w. | Elias McCrea. |
| Vancouver | Clarke | 100 | 35 | 51.4 | + 6.0 | 75 | 13 | 29 | 6† | 38 | 2.17 | − 1.65 | 0.61 | 0.0 | 13 | 8 | 13 | 10 | nw. | A. A. Quarnberg. |
| Vashon Island | King | 116 | 21 | 46.7 | + 2.9 | 63 | 16 | 28 | 6 | 27 | 2.55 | − 1.41 | 1.02 | 0.0 | 16 | 16 | 4 | 11 | s. | Miss Gertrude McClintock |
| Wahluke | Grant | 410 | 6 | 49.8[d] | ..... | 74[b] | 16 | 23[d] | 6 | 38[d] | 0.33 | ..... | 0.25 | 0.0 | 2 | 18 | 6 | 7 | ..... | F. C. Koppen. |
| Wallace | Okanogan | 4,005 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.59 | ..... | 0.40 | 1.9 | 6 | 6 | 20 | 5 | s. | G. A. Wallace. |
| Walla Walla | Walla Walla | 1,000 | 26 | 51.8 | + 7.8 | 71 | 12 | 27 | 6 | 26 | 1.65 | − 0.24 | 0.78 | 0.0 | 8 | 14 | 7 | 10 | s. | U. S. Weather Bureau. |
| Waterville | Douglas | 2,624 | 20 | 42.8 | + 9.4 | 68 | 16 | 16 | 6 | 34 | 1.54 | + 0.58 | 0.42 | ..... | 7 | 22 | 6 | 3 | w. | O. R. Hopewell. |
| Wenatchee (near) | Chelan | 1,169 | 11 | 44.8 | + 5.2 | 65 | 15 | 24 | 6 | 25 | 1.47 | + 0.13 | 0.74 | ..... | 5 | 11 | 13 | 7 | w. | Geo. A. Pitcher. |
| West Branch | Stevens | 2,600 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | U. S. Forest Service. |
| Wilbur | Lincoln | 2,203 | 11 | 45.3 | + 8.0 | 71 | 15 | 24 | 29 | 36 | 1.00 | + .12 | 0.75 | 0.0 | 3 | 14 | 7 | 10 | s. | Rollin J. Reeves. |
| Yale | Cowlitz | 375 | 3 | 49.6 | ..... | 80 | 12 | 32 | 25 | 38 | 5.94 | ..... | 3.11 | T. | 14 | 16 | 9 | 6 | sw. | L. F. Williams. |
| Zindel | Asotin | 715 | 8 | 51.9 | ..... | 77 | 12 | 31 | 5† | 36 | 1.49 | ..... | 0.51 | 0.0 | 4 | 12 | 13 | 6 | n. | M. W. Zindel. |
| *Oregon.* | | | | | | | | | | | | | | | | | | | | |
| Albany | Linn | 214 | 28 | 50.4 | + 4.1 | 75 | 12 | 28 | 6 | 35 | 1.63 | − 3.13 | 0.52 | 0.0 | 9 | ..... | ..... | ..... | ..... | F. M. French. |
| Ashland | Jackson | 1,940 | 22 | 50.2 | + 5.0 | 75 | 11 | 29 | 25 | 34 | 1.05 | − 1.04 | 0.84 | 1.3 | 5 | 13 | 13 | 5 | nw. | F. H. Carter. |
| Astoria | Clatsop | 11 | 48 | 48.5 | + 1.9 | 63 | 15 | 35 | 31 | 24 | 8.34 | + 1.37 | 4.25 | 0.0 | 19 | 11 | 7 | 13 | sw. | Irving Club. |
| Baker City | Baker | 3,466 | 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | U. S. Weather Bureau. |
| Bay City | Tillamook | 14 | 15 | 47.1 | + 2.3 | 63 | 11† | 28 | 25 | 29 | 4.66 | − 6.54 | 1.71 | 0.0 | 18 | 11 | 9 | 11 | nw. | J. O. Bozarth. |
| Bend | Crook | 3,629 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | F. O. Minor. |
| Birch Creek | Wheeler | 2 900 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | F. S. Matteson. |
| Black Butte | Lane | 1,200 | 9 | 46.4 | ..... | 63 | 11 | 27 | 24 | 28 | 2.95 | ..... | 0.85 | 0.0 | 9 | 16 | 7 | 8 | ne. | William Harris. |
| Blalock | Gilliam | 235 | 11 | 51.0 | ..... | 75 | 16 | 30 | 6 | 30 | 0.15 | ..... | 0.08 | 0.0 | 2 | 13 | 9 | 9 | e. | Geo. W. Long. |
| Buckhorn Farm | Josephine | 1,300 | 12 | 50.0 | + 5.2 | 79 | 12 | 26 | 25 | 47 | 1.79 | − 8.13 | 0.60 | 0.0 | 6 | 14 | 6 | 11 | n. | E. F. Meissner. |
| Cascade Locks | Hood River | 100 | 19 | 50.4 | + 5.3 | 72 | 14 | 31 | 6† | 32 | 7.53 | − 0.30 | 3.05 | 0.0 | 16 | 21 | 3 | 7 | w. | Val. W. Tompkins. |
| Casadero | Clackamas | 514 | 1 | 51.6 | ..... | 78 | 12 | 28 | 25 | 39 | 4.37 | ..... | 1.27 | 0.0 | 14 | 12 | 8 | 11 | nw. | Alf Drill. |
| Condon | Gilliam | 2,888 | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C. H. Williams. |
| Connor Creek | Baker | 1,800 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | R. C. Eisele. |
| Corvallis | Benton | 600 | 21 | 47.7 | + 2.9 | 69 | 12† | 28 | 6 | 29 | 1.21 | − 3.78 | 0.34 | 0.0 | 8 | 13 | 9 | 9 | sw. | Oregon Agricultural Coll. |
| Dayville | Grant | 1,500 | 15 | 50.4 | + 7.8 | 81 | 12† | 23 | 6† | 52 | 0.80 | − 0.64 | 0.29 | T. | 4 | 16 | 11 | 4 | nw. | Dr. Campbell-Martin. |
| Doraville | Columbia | 600 | 8 | 47.3 | ..... | 71 | 12 | 26 | 6 | 33 | 4.28 | ..... | 2.19 | 0.3 | 22 | 10 | 5 | 16 | nw. | Jos. Hackenberg. |
| Drain | Douglas | 300 | 7 | 52.6 | ..... | 80 | 12 | 30 | 6 | 39 | 2.86 | ..... | 1.00 | 0.0 | 12 | 10 | 9 | 12 | nw. | Ira Wimberly. |
| Echo | Umatilla | 625 | 5 | 51.2 | ..... | 73 | 17 | 25 | 6 | 29 | 0.98 | ..... | 0.51 | 0.0 | 6 | 16 | 7 | 8 | w. | R. B. Stanfield. |
| Ella | Morrow | 830 | 5 | 50.6 | ..... | 72 | 31 | 25 | 25 | 37 | 0.33 | − 0.43 | 0.22 | 0.0 | 3 | 25 | 3 | 3 | sw. | C. F. Troedson. |
| Eugene | Lane | 449 | 20 | 50.2 | + 5.0 | 70 | 17 | 30 | 6† | 27 | 1.71 | − 2.39 | 0.48 | 0.0 | 9 | 16 | 11 | 4 | nw. | F. L. Barker. |
| Fairview | Coos | 142 | 12 | 51.7 | + 4.5 | 75 | 11 | 37 | 2† | 36 | 3.40 | − 5.51 | 1.04 | 0.0 | 7 | 13 | 1 | 17 | nw. | William Bettys. |
| Falls City | Polk | 355 | 12 | 49.2 | + 5.7 | 75 | 12 | 27 | 6 | 40 | 3.01 | − 6.76 | 1.49 | 0.0 | 10 | 17 | 8 | 6 | e. | Chas. F. Vick. |
| Forest Grove | Washington | 220 | 20 | 50.0 | + 6.5 | 77 | 12 | 26 | 6 | 41 | 1.09 | − 4.03 | 0.31 | 0.0 | 10 | 5 | 12 | 14 | s. | Pacific University. |
| Gardiner | Douglas | 72 | 20 | 49.6 | + 2.7 | 69 | 15 | 32 | 25 | 25 | 3.29 | − 6.44 | 0.73 | 0.0 | 12 | 14 | 9 | 8 | ..... | Hon. J. S. Gray. |
| Glendale | do | 1,441 | 5 | 54.0 | ..... | 84 | 13 | 30 | 28 | 46 | 1.63 | ..... | 0.40 | 0.0 | 6 | 16 | 13 | 2 | nw. | C. Olson. |
| Glenora | Tillamook | 575 | 18 | 47.6 | + 6.4 | 73 | 14 | 27 | 6 | 41 | 8.16 | − 4.79 | 3.55 | 0.0 | 16 | 6 | 9 | 16 | sw. | Mrs. Jennie Reeher. |
| Gold Beach | Curry | 40 | 8 | 49.0 | ..... | 71 | 10 | 31 | 24 | 28 | 4.09 | ..... | 2.10 | 0.0 | 6 | 18 | 4 | 9 | nw. | C. Dewey. |
| Granite | Grant | 4,680 | 4 | 38.7 | ..... | 62 | 15† | 12 | 25 | 42 | 2.21 | ..... | 1.40 | T. | 7 | 7 | 16 | 8 | nw. | L. M. Ford. |
| Grants Pass | Josephine | 956 | 21 | 51.6 | + 5.9 | 78 | 12 | 26 | 28 | 47 | 1.72 | − 2.41 | 0.49 | 0.0 | 9 | 15 | 7 | 9 | sw. | John B. Paddock. |
| Grass Valley | Sherman | 2,381 | 8 | 46.0 | + 5.9 | 73 | 17 | 24 | 7 | 35 | 0.87 | − 0.07 | 0.73 | 0.0 | 2 | 13 | 12 | 6 | sw. | Oreg. Ry. & Navigation Co. |
| Greenleaf | Lane | 250 | 10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Wm. H. Wheeler. |
| Grindstone | Crook | 5,000 | ..... | 41.8 | ..... | 66 | 14 | 11 | 24 | 41 | 1.08 | ..... | 0.43 | 4.0 | 5 | 19 | 6 | 6 | sw. | Orrin C. Mills. |
| Headworks | Clackamas | 719 | 4 | 49.0 | ..... | 75 | 12 | 30 | 25 | 40 | 7.27 | − 0.82 | 1.85 | T. | 16 | 12 | 8 | 11 | sw. | Portland Water Works. |
| Heppner | Morrow | 1,950 | 21 | 48.6[a] | + 6.7 | 69[a] | 18 | 24[a] | 6 | 30[a] | 1.20 | − 0.53 | 0.93 | 0.0 | 7 | 14[a] | 9[a] | 7[a] | w. | Ralph Kenton. |
| Hermiston | Umatilla | 450 | 3 | 50.9 | ..... | 75 | 16 | 33 | 6 | 41 | 1.02 | ..... | 0.77 | 0.0 | 4 | 19 | 7 | 5 | ..... | C. W. Kellogg. |
| Hood River | Hood River | 243 | 19 | 47.9 | + 5.5 | 72 | 15 | 25 | 24 | 40 | 0.50 | − 3.12 | 0.25 | 0.0 | 7 | 18 | 5 | 8 | n. | H. L. Hasbrouck. |
| Huntington | Baker | 2,110 | 9 | 47.1 | ..... | 69 | 16 | 29 | 27 | 26 | 1.45 | ..... | 1.25 | 0.0 | 2 | 14 | 11 | 6 | ..... | J. M. Day. |
| Jacksonville | Jackson | 1 640 | 21 | 50.6 | + 5.2 | 72 | 10† | 27 | 25 | 42 | 0.77 | − 2.22 | 0.42 | T. | 6 | 14 | 5 | 12 | ..... | E. Britt. |

TABLE 1.—*Climatological data for March, 1910. District No. 12*—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | | Precipitation, in inches. | | | | Number of rainy days, .01 inch or more. | Sky. | | | Prevailing wind direction. | Observers. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| *Oregon*—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Joseph | Wallowa | 4,400 | 21 | 38.0 | + 5.8 | 56 | 16 | 20 | 24† | 23 | 2.59 | − 0.55 | 1.00 | 5.2 | 11 | 12 | 9 | 10 | s. | F. F. McCully. |
| Le Grande | Union | 2,784 | 24 | 45.2 | + 7.9 | 69 | 15 | 24 | 6 | 37 | 2.61 | + 0.73 | 1.13 | T. | 8 | 16 | 7 | 8 | sw. | W. A. Worstell. |
| Madras | Crook | 2,150 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Robert Rea. |
| Marshfield | Coos | 12 | 6 | 50.0 | ..... | 69 | 15 | 30 | 6 | 25 | ..... | ..... | ..... | ..... | 14 | ..... | ..... | ..... | ..... | Mrs. E. I. Mingus. |
| McKenzie Bridge | Lane | 1,400 | 7 | 47.2 | ..... | 80 | 12 | 22 | 25 | 52 | 5.06 | ..... | 1.93 | 0.0 | 16 | 11 | 2 | 18 | sw. | Geo. Frissell. |
| McMinnville | Yamhill | 180 | 22 | 50.4 | + 5.4 | 74 | 12 | 29 | 6† | 39 | 1.65 | − 3.30 | 0.60 | 0.0 | 8 | 10 | 10 | 11 | sw. | J. H. Pruett. |
| Mikkalo | Gilliam | 1,600 | 4 | 48.5 | ..... | 69 | 17 | 28 | 6† | 32 | 0.65 | ..... | 0.57 | 0.0 | 3 | 22 | 5 | 4 | w. | Frank Little. |
| Miramonte Farm | Clackamas | 195 | 21 | 51.2 | + 5.4 | 74 | 12† | 30 | 6 | 37 | 2.00 | − 2.87 | 0.36 | 0.0 | 13 | 12 | 10 | 9 | sw. | C. M. Muecke. |
| Monroe | Benton | 350 | 13 | 50.4 | + 5.2 | 73 | 18 | 29 | 6 | 32 | 1.50 | − 4.73 | 0.40 | 0.0 | 8 | 8 | 14 | 9 | sw. | L. A. Peek. |
| Mount Angel | Marion | 485 | 24 | 50.9 | + 5.0 | 72 | 17 | 17 | 1 | 38 | 2.12 | − 2.91 | 0.95 | 0.0 | 7 | 13 | 5 | 13 | s. | Dr. W. F. Fisher. |
| Mount Hood | Hood River | 1,650 | ..... | 46.8 | ..... | 70 | 16 | 22 | 6 | 35 | 3.03 | ..... | 1.65 | 2.8 | 8 | 17 | 10 | 4 | w. | S. G. Babson. |
| Mountain Park | do | 1,350 | 4 | 45.2[a] | ..... | 68 | 16 | 24 | 6 | 33 | 6.38 | ..... | 2.80 | T. | 13 | 13 | 6 | 12 | w. | M. Markley. |
| Musick | Douglas | 5,000 | ..... | 38.4 | ..... | 69 | 12 | 7 | 24 | 53 | 6.24 | ..... | 1.63 | 15.5 | 13 | 13 | 6 | 12 | sw. | Alex. Lundburg. |
| Newport | Linton | 69 | 22 | 48.6 | + 2.6 | 65 | 15 | 32 | 6 | 23 | 3.90 | − 3.14 | 1.55 | 0.0 | 13 | 6 | 12 | 13 | nw. | William Matthews. |
| Pendleton | Umatilla | 1,272 | 20 | 51.3 | + 7.2 | 74 | 12 | 28 | 6† | 36 | 0.92 | − 0.67 | 0.50 | 0.0 | 8 | 14 | 11 | 6 | sw. | H. F. Johnson. |
| Pilot Rock | do | 1,872 | 1 | 50.2 | ..... | 77 | 10 | 26 | 7 | 41 | 0.83 | ..... | 0.41 | 0.0 | 9 | 12 | 15 | 4 | sw. | John P. McManus |
| Pompeii | Clackamas | 3,580 | 15 | 40.2[a] | + 7.4 | 63[a] | 11 | 21[a] | 6 | 31[a] | 7.65 | − 1.29 | 2.98 | 6.0 | 13 | 6[a] | 10[a] | 14[a] | sw. | O. C. Yocum. |
| Portland | Multnomah | 57 | 38 | 52.2 | + 5.2 | 74 | 13 | 33 | 6 | 29 | 2.25 | − 2.78 | 0.60 | 0.0 | 13 | 10 | 13 | 8 | sw. | U. S. Weather Bureau. |
| Prineville | Crook | 3 000 | 13 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Prospect | Jackson | 2,750 | 4 | 47.0 | ..... | 80 | 12 | 23 | 24† | 51 | 0.84 | ..... | 0.50 | 2.0 | 4 | 11 | 14 | 6 | nw. | E. F. Graham. |
| Ramsey | Wasco | 1,350 | ..... | 46.1 | ..... | 68 | 16 | 24 | 6 | 32 | 0.80 | ..... | 0.26 | 0.0 | 9 | 17 | 10 | 4 | w. | Mrs. Iva B. Collins. |
| Range | Grant | 3,500 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Craig Thom. |
| Richland | Baker | 2,350 | 8 | 46.6 | ..... | 72 | 14† | 25 | 25† | 44 | 1.11 | ..... | 0.96 | 0.0 | 2 | 18 | 6 | 7 | ..... | C. G. Morgan. |
| Riverside | Malheur | 3,000 | 11 | ..... | ..... | ..... | ..... | 21 | 7 | ..... | 0.85 | ..... | 0.25 | T. | 6 | 17 | 6 | 8 | w. | Mrs. Leah Fairman. |
| Roseburg | Douglas | 523 | 33 | 51.7 | + 5.1 | 76 | 12 | 31 | 6 | 39 | 2.00 | − 1.78 | 0.99 | 0.0 | 12 | 5 | 22 | 4 | nw. | U. S. Weather Bureau. |
| Salem | Marion | 120 | 20 | 51.3 | + 5.5 | 70 | 12 | 31 | 6 | 26 | 1.24 | − 3.32 | 0.34 | 0.0 | 9 | 13 | 2 | 16 | sw. | M. P. Baldwin. |
| Siskiyou | Jackson | 4,115 | 1 | 46.1 | ..... | 69 | 10† | 20 | 24 | 26 | 2.19 | ..... | 0.81 | 13.5 | 8 | 15 | 8 | 8 | s. | Lewis F. Bates. |
| Sparta | Baker | 4,150 | 17 | 43.4 | + 9.3 | 65 | 15† | 21 | 24 | 33 | 0.69 | − 1.89 | 0.40 | ..... | 5 | 22 | 6 | 3 | w. | Hon. J. A. Wright. |
| Stafford | Clackamas | 400 | 13 | 51.1[a] | + 6.8 | 75[a] | 13 | 28[a] | 6 | 33[a] | 2.64 | − 2.82 | 0.56 | 0.0 | 14 | ..... | ..... | ..... | sw. | John P. Gage. |
| The Dalles | Wasco | 112 | 35 | 51.5 | + 5.5 | 73 | 16 | 27 | 6† | 32 | 0.41 | − 0.90 | 0.15 | 0.0 | 6 | 19 | 3 | 9 | w. | S. L. Brooks. |
| The Heads | Curry | 300 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Willis T. White. |
| Toledo | Linton | 50 | 20 | 47.4 | + 1.3 | 73 | 10† | 20 | 25 | 43 | 3.75 | − 5.41 | 1.70 | 0.0 | 7 | 16 | 9 | 6 | n. | C. B. Crosno. |
| Umatilla | Umatilla | 340 | 14 | 52.1 | + 4.9 | 75 | 16 | 27 | 6 | 38 | 1.07 | + 0.35 | 0.90 | 0.0 | 4 | 15 | 5 | 11 | w. | Mrs. Helen T. Duncan |
| Vale | Malheur | 2,450 | 18 | 46.9 | + 7.1 | 72 | 16 | 25 | 6 | 45 | 0.90 | + 0.23 | 0.47 | 0.0 | 4 | 21 | 8 | 2 | ne. | H. P. Osborn. |
| Van | Harney | 3 506 | 4 | 44.7[b] | ..... | 70[b] | 11† | 17[b] | 6 | 46[b] | 1.20 | ..... | 0.53 | 0.0 | 3 | 20 | 3 | 8 | nw. | Geo. Howe. |
| Wallace Orchard | Polk | 170 | 1 | 50.2 | ..... | 71 | 12 | 29 | 25 | 34 | 1.34 | ..... | 0.36 | 0.0 | 9 | 7 | 16 | 8 | ..... | Chas. A. Parks. |
| Wallowa | Wallowa | 2,935 | 7 | 42.3 | ..... | 72 | 15 | 14 | 6 | 44 | 1.61 | ..... | 0.31 | 0.7 | 12 | 12 | 4 | 15 | sw. | L. J. Coverstone. |
| Wasco | Wasco | 1,500 | 2 | 50.0 | ..... | 72 | 16 | 30 | 25 | 27 | 0.63 | ..... | 0.40 | 0.0 | 3 | 17 | 9 | 5 | w. | A. J. Swift. |
| Warmspring | Crook | 1,600 | 8 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | C. C. Covey. |
| Weston | Umatilla | 1,800 | 20 | 48.1 | ..... | 69 | 11 | 29 | 25 | 34 | 1.36 | ..... | 0.25 | 3.0 | 10 | 11 | 11 | 9 | sw. | M. A. Baker. |
| Williams | Josephine | 1,368 | 17 | 51.0[f] | ..... | 79 | 11 | 24[f] | 25 | 48[f] | ..... | ..... | ..... | 0.0 | .... | 3[m] | 11[m] | 4[m] | n. | J. M. John. |

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
‖ Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for March, 1910. District No. 12, Columbia Valley.*

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Montana.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anaconda | Missoula | | | T. | | .04 | | | .08 | | | | | | | | | T. | | | | T. | .08 | .12 | | | | | .06 | | | T. | 0.38 |
| Bison Mountain | do | T. | | | | | | .25 | T. | | | | | | | | | | | | | .24 | .10 | | | | | | | | .15 | | C. 74 |
| Columbia Falls | Flathead | .25 | .45 | | | T. | | | .05 | | | | | | | | | T. | | | | | .58 | | | | | | | | | | 1.36 |
| Como | Bitter Root | .82 | .03 | .03 | .08 | | | | .09 | | | | | | | | | .01 | | | | .04 | | | | | | | | | | | 1.10 |
| Darby | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dayton | Flathead | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| East Anaconda‖ | Missoula | | T. | | | | | | T. | | | | | | | | | T. | T. | | .01 | .05 | | .20 | | | | | T. | | | T. | 0.26 |
| Fortine | Flathead | .14 | .11 | .15 | T. | .04 | | T. | .01 | | | | | | | | | .02 | | .06 | T. | | .01 | .02 | | | | | T. | | | | 0.56 |
| Hamilton | Bitter Root | .37 | .22 | .08 | | .05 | | | | .02 | | | | | | | | | | | | | | | | | | | | | | | 0.74 |
| Hat Creek | Missoula | .11 | .14 | | | T. | | | | | | | | | | | | | | | .15 | | | .01 | | | | | .01 | | | .35 | 0.77 |
| Kalispell | Flathead | .32 | .13 | .05 | .09 | .12 | | | .06 | | | | | | | | | .02 | | | | | .50 | .14 | | | | | .02 | | | | 1.45 |
| Lost Creek | Missoula | T. | | | | T. | | | | T. | | | | | | | | | | .16 | | | .14 | | .04 | | | | | .04 | | .04 | 0.42 |
| McGinnis Meadows | Kootenai | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Missoula | Missoula | .13 | .21 | .16 | T. | .04 | | | T. | T. | | | | | | | | .01 | T. | T. | | .08 | .06 | T. | | | | T. | T. | T. | | | 0.69 |
| Ophir | do | .20 | .15 | .16 | .08 | T. | | | * | .05 | | | | | | | | | | | | | .40 | | | | | | .05 | | .08 | | 1.17 |
| Ovando | do | .33 | .50 | .25 | T. | | | | T. | | | | | | | | | T. | | | | .10 | .05 | .15 | | | | | T. | | | .21 | 1.59 |
| Philipsburg | do | .03 | | | | | | | | T. | | | | | | | | | | .09 | | | .15 | .09 | .01 | | | | .02 | | | | 0.39 |
| Plains | Columbia | * | .25 | | | | | | | | | | | | | | | | | | | | .10 | | | | | | T. | | | | 0.35 |
| Pleasant Valley | Kootenai | .32 | .33 | .14 | .04 | .24 | | | | | | | | | | | | .08 | | | .04 | | .15 | .15 | .02 | | | | .09 | | | | 1.60 |
| Polson | Flathead | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| St. Ignatius | do | T. | .34 | .03 | .01 | .02 | | | | T. | | | | | | | | | | | | | .37 | .03 | .01 | T. | | | T. | | | T. | 0.81 |
| St. Regis | Missoula | .80 | 1.50 | .39 | .12 | | | | | | | | | | | | | | | | | | .32 | .12 | | | | | | | | .06 | 3.40 |
| Saltese | do | 1.60 | .80 | .55 | .27 | | | | | | | | | | | | | | | | | | .38 | | | | | | .25 | | | | 3.85 |
| Snowshoe | Kootenai | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Troy | do | .60 | .33 | T. | .10 | .21 | | | .03 | .03 | | | | | | | | T. | | .10 | | | .05 | .10 | T. | | | | .09 | | | | 1.64 |
| Upper Lake McDonald | Flathead | .15 | .18 | .23 | T. | .10 | | T. | T. | | | | | | | | | T. | | | | | T. | .74 | | | | | T. | | | | 1.40 |
| *Wyoming.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Afton | Snake | .50 | | | | | | | | | | | | | | | | | | | | .05 | | .48 | .02 | | .05 | .06 | .26 | .02 | | | 1.44 |
| Alta | do | | | | | | | | | T. | | | | | | | | | | | | | .50 | | .31 | | | T. | .20 | .10 | | .03 | 1.14 |
| Bedford | do | .43 | | | | | | | | .08 | | | | | | | | | | | | | | .42 | .22 | | | | .25 | .13 | | | 1.53 |
| Snake River | do | .20 | .30 | | | | | | | | | | | | | | | | | | | | | | .50 | | | .10 | .10 | .10 | | | 1.30 |
| *Nevada.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| San Jacinto | Snake | | | | | | | | | | | | | | | | | | | T. | T. | T. | T. | T. | | | | .07 | .12 | | | | 0.19 |
| *Utah.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standrod | Raft | T. | | | | | | | | | | | | | | | | | | | | | T. | T. | .04 | | | | .02 | | | T. | 0.06 |
| *Idaho.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atlanta | Boise | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Albion | Upper Snake | | | | | | | | | | | | | | | | | | | | | T. | T. | T. | .02 | | | | | | | | 0.02 |
| Almo | do | .10 | | | | | | | | | | | | | | | | T. | | | | | T. | | | | | | | | | | 0.10 |
| American Falls | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blackfoot‖ | do | | | | | | | | | .06 | | | | | | | | | T. | | | T. | .10 | .08 | T. | T. | | .09 | .15 | | | T. | 0.48 |
| Blackfoot Dam | do | .23 | | | | | | | | T. | | | | | | | | | | | | | | .29 | .11 | | .01 | | .10 | | | | 0.74 |
| Blanche | Middle Snake | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | T. | | | | T. |
| Bock's Ranch | Boise | .88 | | | | | | | | | | | | .19 | | | | | | | | | .22 | .16 | | | .13 | T. | .20 | | | | 1.78 |
| Bogus Creek | Payette | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boise | Boise | .20 | | T. | | | | | | | | | | | | | | T. | .01 | .02 | | T. | .09 | .22 | | | T. | .26 | .03 | | T. | 0.83 |
| Bonners Ferry | Upper Columbia | .50 | T. | T. | | .05 | | | | | | | | | | | | T. | | | | T. | .03 | .40 | T. | | | | .15 | | T. | 1.13 |
| Boulder Mine | Boise | .98 | .23 | | | | | | | | | | | | | | | | | .14 | | | .18 | .46 | | | | .09 | | | | 2.08 |
| Buhl | Upper Snake | | | | | | | | | | | | | | | | | | | | | | | T. | | | | .28 | T. | | | | 0.28 |
| Burke | Upper Columbia | .99 | 1.01 | | T. | .84 | | | | | | | | | | | | T. | | | .07 | | .62 | .24 | .11 | .04 | | | .34 | | | .24 | 4.50 |
| Caldwell | Boise | | | | | | | | | | | | | | | | | | | .08 | T. | | T. | .20 | | | T. | T. | | | | | 0.28 |
| Camas | Lost River Region | | | | | | | .01 | | | | | | | | | | | T. | | | T. | .02 | | | T. | | | | | | | 0.03 |
| Cambridge | Middle Snake | .35 | | | | | | | | | | | | | | | | .04 | .03 | .25 | .11 | .05 | .02 | .10 | | | T. | | | | T. | | 0.95 |
| Chesterfield | Upper Snake | .21 | | | | | | | | | | | | | | | | | | | | T. | | .33 | .05 | | | | .06 | | | | 0.65 |
| Clawson | do | | | | | | | | | T. | | | | | | | | | | | | | | T. | .35 | | | .10 | .22 | | | | 0.67 |
| Cœur d'Alene | Upper Columbia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cottonwood Creek | Boise | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crawford | Payette | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Culdesac | Clearwater | | .11 | | | | | | | | | | | | | | | | | .71 | .04 | | | | | | | | | | | | 0.86 |
| Deary | do | .08 | .90 | .25 | .05 | | | | | | | | | | | | | | | .60 | .35 | | .73 | .50 | | | | | | | | | 3.46 |
| Dent | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Driggs | Upper Snake | T. | | | | | | | | T. | | | | | | | | | | T. | | | T. | T. | .34 | | T. | | .30 | .01 | | T. | 0.65 |
| Edie | Lost River Region | | | | | | | | | T. | | | | | | | | | | T. | | | .20 | | T. | | T. | T. | .12 | | | | 0.32 |
| Edwardsburg | Salmon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emmett‖ | Payette | .12 | | | | | | | | | | | | | | | | | | .08 | | | | .06 | .15 | | | .05 | | | | | 0.46 |
| Forney | Salmon | | | | | .10 | | | | | | | | | | | | | | .10 | | | .25 | | .05 | | | | .60 | | | | 1.10 |
| Garden Valley | Payette | | | | | | | | | | | | | | | | | | | .07 | | | .14 | .10 | | | | T. | T. | | | | |
| Garnet | Middle Snake | | | | | | | | | | | | | | | | | | | | T. | T. | | | T. | | | | .60 | | .07 | | 0.67 |
| Gilbert | Clearwater | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glenns Ferry | Middle Snake | .19 | | | | | | | | | | | | | | | | | .03 | .02 | | | | .03 | | | .01 | | | | | | 0.28 |
| Gooding | Wood-Malad | .10 | | | | | | | | | | | | | | | | | .01 | T. | | T. | T. | .02 | T. | | | | .01 | | | | 0.14 |
| Grand Forks | Upper Columbia | 1.08 | 2.06 | .58 | .24 | .58 | | | | | | | | | | | | | | | .21 | | .60 | .42 | .08 | | | | .23 | | | .48 | 6.56 |
| Grandview | Middle Snake | | | | | | | | | | | | | | | | | | | | | | | .08 | | | .03 | | .35 | | | | 0.46 |
| Green Timber | Upper Snake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grimes Pass‖ | Boise | .13 | | | | | | | | | | | | | | | | | | | | | | .23 | | | | .18 | | | | | 0.54 |
| Guffey | Middle Snake | | | | | | | | | | | | | | | | | T. | .01 | | | | .02 | .08 | T. | | | .02 | .08 | | | | 0.21 |
| Hailey | Wood-Malad | .12 | | | | | | | | | | | | | | | | | | .07 | T. | T. | T. | .07 | .02 | T. | T. | .06 | .09 | T. | | | 0.43 |
| Hotspring | Middle Snake | | | | | | | | | | | | | | | | | | | | | | T. | .07 | | | .16 | .08 | .44 | | | | |
| Idaho City | Boise | .68 | | | | | | | | | | | | | | | | | | | T. | .08 | .15 | .25 | | | | | | | | | 1.16 |
| Idaho Falls | Upper Snake | | | | | | | | | | | | | | | | | | | T. | .02 | | | .16 | .02 | | | | | | | | 0.20 |
| Indian Valley‖ | Middle Snake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Irwin | Upper Snake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kellogg‖ | Upper Columbia | .36 | .40 | .09 | .07 | .31 | | | | .10 | | | | | | | | .08 | | .07 | .23 | .03 | | .40 | | | | | .08 | | | .19 | 2.41 |
| Kirkham | Payette | 1.58 | | | | | | | | | | | | | | | | | | .13 | | | .30 | .20 | | | | | | | | | 2.21 |
| Kooskia | Clearwater | .26 | .04 | | | .03 | | | T. | .16 | | | | | | | | T. | | .10 | .05 | .05 | .10 | .15 | | | | | | | .02 | .39 | 1.35 |
| Lake | Upper Snake | | | | | | | | | | | | | | | | | | | | | | | | T. | | | | | | | T. | T. |
| Lakeview | Upper Columbia | | | | | | | | | | | | | | | | | | | | .30 | | | .20 | | | | | .10 | | | | 0.60 |
| Landore | Middle Snake | .87 | .06 | .01 | T. | T. | | | | | | | | | | | | .01 | | .44 | .36 | .09 | .35 | .42 | | | T. | T. | .03 | | | .01 | 2.65 |
| Lewiston | Clearwater | .17 | .01 | .08 | .03 | T. | | | .01 | | | | | T. | | | | T. | T. | .65 | .20 | | .36 | .01 | | | | .01 | .03 | | | | 1.56 |
| Little Camas | Boise | .90 | | | | | | | | | | | | | | | | | | .60 | | | .20 | .09 | | | .15 | .05 | .12 | | | | 2.11 |
| Long Gulch | do | .24 | .08 | | | | | | | | | | | | | | | | | .08 | | | .23 | .08 | | | .29 | .09 | .07 | | | | 1.16 |
| Loon Creek | Salmon | .30 | .06 | | | T. | | | | | | | | | | | | T. | | T. | | T. | .75 | .01 | | | .05 | .01 | .45 | | T. | | 1.63 |
| Lost River | Lost River Region | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lowry | Owyhee | | | T. | | | | | | | | | | | | | | T. | | | | | | .05 | | | | | | | | | 0.05 |
| McCall | Payette | .04 | .25 | .01 | | | | | | | | | | | | | | T. | | .08 | | .15 | .32 | .37 | | | | | | | | | 1.22 |
| Mackay‖ | Lost River Region | | | | | | | | | | | | | | | | | | | .04 | .01 | T. | .04 | | T. | | | | T. | | | | 0.03 |
| Meadows | Salmon | .20 | | | | | | | | | | | | | | | | | | .35 | .05 | .05 | .30 | .32 | .05 | | T. | .01 | | | | | 1.33 |
| Milner | Upper Snake | | | | | | | | | | | | | | | | | | | | | T. | | | | | | | | | | | T. |
| Moscow | Upper Columbia | .53 | .46 | .06 | T. | .18 | | | .01 | .02 | | | | | | | | | | .20 | .58 | .01 | .33 | .08 | .01 | | | | .15 | | | .02 | 2.64 |
| Mountainhome | Middle Snake | .18 | | | | | | | | | | | | | | | | | | .03 | | | | | | | .20 | T. | .27 | | | | 0.68 |
| Murtaugh‖ | Upper Snake | T. | | | | | | | | | | | | | | | | | | | | | | | T. | T. | | | | | | | T. |
| Nez Perce‖ | Clearwater | | | .08 | | | | | | | | | | | | | | | | .07 | .22 | .31 | | | | | | | .22 | .21 | | | 1.11 |
| Oakley | Upper Snake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| O'Hara Bar | Clearwater | 1.40 | .30 | .25 | .01 | .25 | | | .10 | .25 | .01 | | | | | | | | | .25 | | | | .30 | | | | | .25 | | | | 3.37 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 12*—Continued.

| Stations. | River basins | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Idaho*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Orofino | Clearwater | .90 | .32 | .18 | .10 | .15 | | | .15 | .07 | .01 | | | | | | | T. | T. | .05 | .28 | .03 | .40 | .20 | .02 | | | | .18 | | | .19 | 3.23 |
| Payette | Payette | | | | | | | | | | | | | | | | | | T. | .21 | .20 | T. | T. | .07 | | | T. | .03 | | | T. | 0.51 |
| Pebble | Upper Snake | | | | | | | | | | | | | | | | | | | | | .01 | T. | .18 | .16 | | | .02 | .14 | | | | 0.51 |
| Pierson | Salmon | | .78 | | | | | | | | | | | | | | | | | .16 | | | .16 | | | | .09 | | | | | | 1.19 |
| Pine | Boise | .70 | .20 | | | | | | | | | | | | | | | | T. | .15 | | | T. | .04 | .06 | | .12 | .10 | | | | | 1.37 |
| Placerville | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleasant Valley | do | .05 | .07 | | | | | | | | | | | | | | | | | T. | | | .03 | .22 | | | | | .44 | | | | 0.81 |
| Pocatello | Upper Snake | .08 | | | | | | | | T. | | | | | | | | T. | | | | T. | .23 | .05 | .05 | | | | .23 | | | | 0.64 |
| Pocatello Nursery | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Poplar | do | | | | | | | | | T. | | | | | | | | | | | | T. | T. | .11 | .02 | | T. | | .32 | | | .22 | 0.67 |
| Porthill | Upper Columbia | .35 | | | .02 | | | | | | | | | | | | | .07 | | T. | | | .55 | .09 | | | | | | | | .20 | 1.28 |
| Powers Ranch | Boise | .33 | | | | | | | | | | | | | | | | | | | | | .14 | .30 | | | | | .17 | | | | 0.94 |
| Pyle Creek | Payette | .17 | | | | | | | | | | | | | | | | | | .03 | | T. | .10 | .25 | | | | T. | .06 | | | | 0.61 |
| Rattlesnake Creek | Boise | .80 | .13 | | | | | | | | | | | | | | | | T. | T. | | | .25 | .31 | | | .11 | .03 | .13 | | | T. | 1.76 |
| Ruby Creek | do | .82 | .32 | | T. | | | | | | | | | | | | | | | .04 | | | .20 | .28 | T. | | | | .13 | | | | 1.79 |
| Rupert | Upper Snake | | | | | | | | | | | | | | | | | | | | | | T. | T. | .10 | | | | | | | | 0.10 |
| Salmon | Salmon | T. | | | | | | | | .01 | | | | | | | | T. | .02 | | | | .16 | T. | | | T. | T. | .28 | | | | 0.47 |
| Salmon River Dam | Middle Snake | .03 | | | | | | | | | | | | | | | | T. | T. | | | T. | T. | .02 | .09 | | .11 | | .06 | | | | 0.31 |
| Sheep Hill | Boise | | 1.48 | | T. | | | | | | | | | | | | | | | | | | .01 | .03 | | | | | .03 | | | | 1.55 |
| Shoshone | Wood-Malad | .04 | | | | | | | | | | | | | | | | | .06 | .03 | T. | | T. | .08 | | | .01 | T. | T. | | | | 0.22 |
| Silver City | Owyhee | .24 | | | | | | | | | | | | | | | | .24 | .02 | .02 | | | | .30 | .03 | T. | | .12 | | | | | 0.97 |
| Smith Prairie | Boise | .63 | | T. | | | | | | | | | | | | | | | | | | | .23 | .14 | | | .13 | T. | .11 | | | | 1.24 |
| Soldier | Wood-Malad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar‖ | Upper Snake | | | | | | | | .03 | | | | | | | | | | .02 | | | .01 | .07 | | | | T. | .13 | .18 | | | T. | 0.44 |
| Sunnyside‖ | Middle Snake | .24 | | | | | | | | | | | | | | | | T. | T. | T. | | | .13 | .08 | | | | T. | .40 | | | | 0.85 |
| Tilden | Upper Snake | | | | | | | | | | | | | | | | | | | | | | | | T. | | | T. | .20 | | | | 0.20 |
| Tripod Mountain | Payette | | | | | | | | | | | | | | | | | | T. | T. | | .11 | .35 | .44 | | | | | | | | | 0.90 |
| Twin Falls | Twin Falls | .07 | | | | | | | | | | | | | | | | .03 | | | T. | T. | T. | .02 | | | | | | .04 | | | 0.16 |
| Vernon | Upper Snake | | | | | | | | | .15 | | | | | | | | | | T. | | T. | T. | .13 | T. | | T. | | .28 | | | | 0.56 |
| Wallace | Upper Columbia | .69 | 1.47 | .40 | .21 | .72 | | T. | .01 | .01 | | | | | | | | .01 | T. | .02 | .26 | | .43 | .34 | .06 | .01 | | T. | .25 | T. | | .14 | 5.03 |
| Wendell | Upper Snake | | | | | | | | | | | | | | | | | T. | T. | T. | | | | .11 | | | | .04 | | | | | 0.15 |
| *Washington.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aberdeen | Coast | 2.03 | .56 | .28 | .76 | | .69 | | .06 | | | | | | | | .08 | .07 | .31 | .16 | .98 | .03 | .04 | .05 | | | .07 | .05 | | | .37 | | 6.59 |
| Anacortes | Puget Sound | .50 | .03 | .14 | .08 | .29 | .01 | .09 | .01 | .05 | | | | | | | | .14 | .05 | .26 | .06 | .01 | .03 | .35 | | | | | .11 | .08 | | | 2.29 |
| Baker | do | 1.28 | .33 | .32 | .22 | .82 | .62 | | | T. | | | | | | | | T. | T. | .45 | .13 | | .16 | .09 | | | | | .79 | | .27 | | 5.49 |
| Bellingham | do | .37 | .80 | | .48 | | | .20 | | .65 | | | | | | | | | .16 | | .30 | .45 | | .04 | T. | .05 | T. | | | | .55 | | 3.45 |
| Blaine | do | .60 | T. | .48 | .41 | .10 | | .06 | .06 | .05 | .02 | | | | | | | .14 | .18 | .52 | .20 | .04 | | | | | | | .27 | | .34 | | 3.47 |
| Blewett | Wenatchee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bremerton | Puget Sound | .52 | .17 | .63 | .06 | .37 | | .05 | | | .01 | | | | | | | | .09 | .11 | | .08 | .02 | .09 | .20 | | | | | | | .02 | 1.82 |
| Brewster | Columbia | .26 | | | .01 | | | | | | | | | | | | | .02 | T. | .28 | | T. | | .08 | | | | | | | | | 0.65 |
| Bumping Lake | Yakima | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cashmere | Wenatchee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cedar River | Puget Sound | 1.02 | .45 | .32 | .26 | T. | | .14 | .07 | | | | | | .03 | | | .82 | .53 | .05 | .03 | | .42 | | .13 | | | | .19 | | .44 | | 4.90 |
| Centralia | Coast | 2.36 | 1.12 | .09 | .12 | .35 | T. | .08 | | | | | | | | | | .20 | .17 | .45 | .49 | | .05 | .06 | | | T. | | .14 | | .10 | | 5.78 |
| Cheney | Spokane | | | | .21 | .17 | | | | | | | | | | | | | | | | | .22 | .20 | | | .17 | | | | | | 0.97 |
| Clealum | Yakima | 1.73 | .83 | | | .13 | | | .03 | | | | | | | | | | .05 | .30 | .30 | .10 | .32 | | | | | | .05 | | | | 3.84 |
| Clearbrook | Puget Sound | .81 | | .84 | 1.84 | | .28 | | | | | | | | | | .31 | | .19 | .28 | | .13 | .03 | | .10 | | | | .31 | | .49 | | 5.61 |
| Clearwater | Coast | 2.20 | 1.05 | 1.05 | .60 | .10 | | .15 | .10 | | | | | | | | | .40 | .05 | .60 | .30 | | .10 | .45 | | | .20 | .10 | .15 | | 1.15 | | 8.75 |
| Colfax | Palouse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colville | Columbia | | | | | .12 | | | | | | | | | | | | | | .06 | .41 | | .18 | .32 | | | | | | | | .03 | 1.12 |
| Conconully | Okanogan | | | | T. | | | | | | | | | | | | T. | | | .38 | | T. | | .51 | | | | | | | | | 0.89 |
| Cowiche | Yakima | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crescent | Spokane | | | | .06 | | | | | | | | | | | | | .06 | .11 | | .20 | | | .42 | .02 | | | | .12 | | | | 0.99 |
| Davenport | Columbia | .06 | .04 | | | | | | | | | | | | | | | .05 | | .02 | .39 | | .25 | .30 | .02 | | | | .11 | | | | 1.24 |
| Dayton | do | .41 | .27 | .25 | | .05 | | | | | | | | | | | | | .12 | .59 | .86 | | .40 | .39 | T. | | | | .03 | | .04 | | 3.41 |
| Detroit | Puget Sound | 1.36 | .59 | .11 | .28 | .45 | .03 | .10 | | | | | | | | | .07 | .05 | .14 | .18 | .40 | | .03 | | | | | | | | T. | | 3.79 |
| Dixie | Columbia | 1.80 | .35 | .09 | | .24 | | | | | | | | | | | | | .25 | .68 | .80 | T. | .95 | .35 | .02 | | | | .10 | | | .10 | 5.73 |
| Duckabush | Puget Sound | | | .80 | .55 | .13 | .35 | .02 | .03 | T. | | | | | | | .03 | .07 | .12 | .28 | .22 | | .48 | .08 | .03 | | | | .02 | | .04 | .02 | 3.27 |
| East Sound | do | .55 | .12 | .50 | .22 | .17 | T. | .25 | .13 | T. | | | | | | | | .21 | .03 | .31 | .04 | | | T. | | | | .10 | | .21 | | .06 | 2.90 |
| Ellensburg | Yakima | .25 | | | | | | | | | | | | | | | .21 | | | .11 | .12 | | .19 | | | | | | | | | | 0.88 |
| Ephrata | Columbia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Forks | Fort Simcoe | 2.02 | 1.10 | 1.00 | .60 | .67 | .67 | .10 | .01 | .05 | | | | | .02 | | | .35 | .28 | .35 | .15 | .02 | .09 | .26 | .07 | | .03 | .15 | .18 | | .68 | | 8.85 |
| Fort Simcoe | Yakima | .50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.50 |
| Goat Lake | Puget Sound | 1.20 | 1.49 | .77 | .55 | | .94 | .26 | | | | | | | | | | .33 | .24 | .07 | .36 | .29 | | .37 | .13 | | | T. | .18 | | | .40 | 7.58 |
| Gold Creek | Yakima | * | .98 | | | .15 | | | | | | | | | | | | | * | * | * | .65 | .38 | | | | | | | | | | 2.16 |
| Goldendale | Columbia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granite Falls | Puget Sound | .78 | | | .15 | .44 | | .15 | .04 | T. | | | | | | | | .42 | .22 | .54 | .08 | .01 | .32 | .51 | .05 | | | | .34 | T. | .31 | | 4.36 |
| Hatton | Columbia | | | | | | | | | | | | | | | | | .06 | T. | * | .26 | | .40 | .04 | | | | | | | | | 0.76 |
| Huntsville | do | .21 | .12 | .17 | | T. | | | | | | | | | | | | | .11 | .52 | .52 | | .45 | .34 | | | | | | | | | 2.44 |
| Irene Mountain | do | | | | | T. | | | T. | | | | | | | | | .06 | | .23 | .03 | T. | T. | .74 | | | | | | T. | | 1.06 |
| Kennewick | do | | | | | | | | | | | | | | | | | | T. | | .03 | | .73 | | | | | | | | .05 | | 0.81 |
| Kettle Falls | do | | | | 04 | | | | | | | | | | | | | .07 | | .04 | .28 | | .23 | .76 | | | | | .02 | | | | 1.44 |
| Kiona | Yakima | | | .03 | | | | | | | | | | | | | | | .04 | .10 | | .64 | | | | | | | | | | | 0.81 |
| Kosmos | Columbia | 3.82 | 1.50 | .02 | .28 | .26 | | .08 | .05 | | | | | | | | | .02 | | | .03 | | .63 | .02 | .02 | | | | | | .18 | .08 | 6.39 |
| La Center | do | .60 | | .01 | .11 | .10 | | | | | | | | | | | .10 | .22 | .17 | .20 | T. | | .44 | .10 | | | | | .08 | | .03 | | 2.16 |
| La Crosse | Palouse | T. | .32 | .01 | | T. | | | | | | | | | | | | T. | .10 | .27 | .75 | T. | .26 | .11 | T. | | | | .03 | | T. | T. | 1.85 |
| Lake Clealum | Yakima | .46 | .32 | .26 | .34 | | | | | | | | | | | | | | | .16 | .46 | .13 | .26 | .12 | .06 | | | | | | | | 2.57 |
| Lake Kachess | do | 1.17 | 1.90 | | | .50 | | .14 | T. | | | | | | | | | .12 | .05 | .25 | .52 | | .37 | .30 | .20 | | | | .20 | | .10 | | 5.82 |
| Lake Keechelus | do | 3.00 | 1.60 | .75 | | | | .10 | | | | | | | .20 | .20 | .15 | .10 | | .45 | .35 | | .25 | .30 | .40 | | | | | .40 | .16 | | 8.41 |
| Lakeside | Columbia | .62 | | | | | | | | | | | | | | | | .03 | T. | .09 | .01 | | .33 | .17 | | | | | | | | | 1.25 |
| Laurel | do | 1.40 | .57 | .05 | .25 | | | | | | | | | | | | | .10 | | .55 | | | .07 | | | | | | | | | | 2.99 |
| Laurier | Kettle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lester | Puget Sound | 2.55 | 1.35 | .05 | .15 | .35 | | | .25 | | | | | | | | | .25 | .05 | .55 | .10 | | .25 | .05 | | | | | | | .05 | | 6.00 |
| Lone Tree | Coast | 1.53 | .30 | .33 | .12 | .44 | .36 | .05 | .17 | .06 | | | | | | | | .16 | .03 | .55 | .52 | .12 | .17 | .13 | .03 | | T. | | .02 | | .31 | .16 | 5.56 |
| Longmiresprings | Puget Sound | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lost Creek | Columbia | | | | | .20 | | | | | | | | | | | | | | .30 | | | 1.03 | | | | | | | | | | 1.53 |
| Lyle | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| McCumbers Ranch | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4.20 |
| Mottinger | do | .05 | | | | | | | | | | | | | | | | .05 | T. | .36 | | | .86 | .19 | | | | | | | .02 | | 1.53 |
| Mount Pleasant | do | .95 | .45 | .20 | .20 | .15 | | .15 | .10 | .01 | | | | | | | | .10 | .05 | .35 | .05 | | .95 | .04 | .18 | | | | .18 | | .05 | .05 | 4.21 |
| Moxee | Yakima | .04 | | | | | | | | | | | | | | | | .06 | | .04 | .04 | | .06 | .01 | | | | | | | | | 0.25 |
| Newport | Pend d'Oreille | .31 | | T. | T. | | | | .02 | | | | | | | | | .05 | | T. | .20 | .03 | .15 | .34 | | | | | .23 | | T. | | 1.33 |
| North Head | Coast | 2.54 | .21 | .03 | .28 | .02 | .09 | .01 | .07 | | | | | | | .01 | .02 | .05 | .08 | .16 | .33 | | .02 | .03 | .08 | | .01 | | .03 | | .17 | | 4.24 |
| Northport | Columbia | | | | .05 | .03 | | | | | | | | | | .10 | | T. | | | .50 | .55 | T. | T. | | | | | | | | | 1.23 |
| North Yakima | Yakima | .03 | | | | | | | | | | | | | | | | .04 | | .08 | | | .06 | T. | | | | | | | | | 0.21 |
| Nutland | Columbia | | | | | | | | | | | | | | | | | | | | .01 | | .08 | | | | | | | | | | 0.09 |
| Odessa | do | | | | | | | | | | | | | | | | T. | | | .20 | .30 | | .10 | T. | T. | | | | | | | | 0.60 |
| Olga | Puget Sound | .51 | | .47 | .12 | .11 | | | .05 | .15 | | | | | | | .08 | .24 | .05 | .36 | .04 | | | .06 | .10 | | | .14 | T. | | .06 | | 2.54 |
| Olympia | do | 1.52 | 1.62 | | .22 | .55 | .04 | .10 | .02 | | | | | | | | .03 | .16 | .15 | .44 | .67 | | T. | | | | | | | | .08 | | 5.60 |
| Omak | Okanogan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oroville | do | | | | | | | | | | | | | | | | | T. | | .17 | .01 | .14 | .16 | 1.00 | | | | | | | | | 1.48 |
| Peola | Snake | .75 | .25 | .16 | | .26 | | | T. | | | | | | | | | | .10 | .05 | .90 | | .36 | .04 | .12 | | T. | .03 | .14 | | | .04 | 3.20 |
| Pomeroy | do | .10 | T. | T. | | | | | | | | | | | | | | | T. | .50 | .65 | | .25 | | | | | | T. | | T. | | 1.50 |
| Port Crescent | Coast | .38 | .08 | .56 | .46 | .07 | .05 | | | .02 | | | | | | | .05 | .07 | .23 | .22 | .15 | | .01 | T. | | | | .13 | .03 | | .09 | | 2.60 |

TABLE 2.—*Daily precipitation for March, 1910. District No. 12*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Washington*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Port Townsend | Puget Sound | .42 | | .05 | | .15 | | .12 | | .02 | | | | | | | | .04 | T. | .44 | .10 | | .08 | .20 | | | | | .08 | | .02 | | 1.72 |
| Pullman | Palouse | | | | | | | | | | | | | | | | | | | .10 | .70 | | .35 | | | | | | .20 | T. | T. | | 1.35 |
| Quinault | Coast | 1.08 | 1.90 | 1.00 | .72 | .57 | .53 | .26 | | .02 | | | | | | | .04 | .22 | .22 | .60 | .39 | .01 | .02 | .50 | .05 | | .05 | | .05 | .01 | .57 | | 8.81 |
| Republic | Kettle | | | | .18 | | | | | | | | | | | | | .09 | | .16 | .05 | T. | .05 | .64 | .05 | T. | | | | | | | 1.22 |
| Rex Creek | Columbia | .78 | | | | T. | | | | | | | | | | | | | | .38 | .04 | | | | | | | | | | | | 1.20 |
| Ritzville | do | | .04 | | | | | | | | | | | | | | | .08 | | .30 | .09 | | .61 | | | | | | | | | | 1.12 |
| Rock Lake | Palouse | .06 | .08 | | | | | | | | | | | | | | | | | | .65 | | | .30 | | | | | | | | | 1.09 |
| Rosalia | do | .18 | .07 | | .06 | | | | | | | | | | | | | T. | .25 | .05 | .76 | | .50 | .16 | T. | | | | .03 | | .01 | | 2.07 |
| Russells Ranch | Yakima | 1.60 | 1.32 | | T. | .05 | | | | | | | | | | | | | .10 | T. | .80 | .50 | | .22 | | | | | .12 | | T. | | 4.71 |
| Scenic Hot Springs | King | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seattle | Puget Sound | .20 | .03 | T. | .27 | | .01 | | T. | T. | | | | | | | .11 | .11 | .04 | .11 | .09 | | .27 | .42 | T. | | | .03 | .05 | | .05 | .01 | 1.80 |
| Sedro-Woolley | do | 1.06 | .58 | .30 | .18 | .38 | | | .12 | .04 | | | | | | | | .22 | .08 | .37 | .06 | | .11 | .04 | .11 | | | | .51 | | .40 | | 4.06 |
| Sixprong | Columbia | .02 | .04 | | .06 | | | | | | | | | | | | | | | .08 | | | .30 | | | | | | | | | | 0.50 |
| Skagit Power Dam | Puget Sound | 1.81 | 1.19 | .42 | .50 | .37 | .05 | .34 | .08 | | | | | | | | | .27 | .17 | .06 | .10 | .05 | .15 | .03 | .13 | | | | .32 | | .33 | .03 | 6.40 |
| Snohomish | do | .26 | .03 | .02 | .03 | .16 | | | .05 | | | | | | | | | .22 | .23 | .40 | .02 | | .30 | .29 | | | | | .23 | | .23 | .02 | 2.49 |
| Snoqualmie Falls | do | 1.29 | 1.26 | .31 | .28 | .40 | .02 | .16 | .03 | | T. | | | | | | | .95 | .16 | .53 | .22 | .01 | .62 | .05 | .04 | T. | | | .35 | T. | .05 | .03 | 6.76 |
| Snyders Ranch | Columbia | 1.10 | | | | .07 | | | | | | | | | | | | | .08 | .21 | .15 | T. | .02 | T. | | | | | | | | | 1.63 |
| South Bend | Coast | 3.90 | 2.10 | .38 | .62 | .38 | .08 | .26 | 1.14 | .02 | | | | | | | .03 | .19 | .11 | .43 | .62 | .02 | .05 | .32 | .25 | | | .05 | .06 | | .24 | | 11.25 |
| Spokane | Spokane | .03 | .02 | | | T. | | | | T. | | | | | | | | .02 | .01 | .11 | .30 | | .24 | .03 | .01 | | | | .01 | | T. | | 0.78 |
| State University | Puget Sound | .24 | .04 | | .03 | .17 | | | | .01 | | | | | | | | .14 | .12 | .08 | .19 | .01 | .12 | .56 | .04 | | | | .03 | | | .09 | 1.87 |
| Stokes Ranch | Columbia | .55 | | | | .08 | | | | | | | | | | | | | | .10 | | | | T. | | | | | | | | | 0.73 |
| Sullivan Lake | Pend d'Oreille | | | | | | .02 | | .02 | | | | | | | | | .39 | T. | T. | .22 | | .08 | .55 | | | | | .19 | | | .03 | 1.50 |
| Sumner | Puget Sound | 1.20 | 1.08 | .02 | .08 | .28 | .01 | .05 | .01 | T. | | | | | | | | .43 | .37 | .30 | .07 | .04 | .18 | .62 | .01 | | | | .02 | | .09 | .03 | 4.29 |
| Sunnyside | Yakima | | | | | | | | | | | | | | | | | .06 | .02 | .04 | T. | | .31 | | | | | | | | | | 0.43 |
| Tacoma | Puget Sound | 1.15 | .44 | .02 | .28 | .05 | .06 | .01 | .02 | T. | | | | | | .05 | .25 | .13 | .03 | .16 | | .13 | | | T. | | T. | | | | .12 | | 2.90 |
| Tatoosh Island | Coast | .26 | .18 | .57 | .33 | .04 | .33 | | .05 | .10 | | | | | T. | | .05 | .37 | .13 | .29 | .27 | | .01 | .04 | .01 | | .02 | .26 | .02 | .08 | .41 | | 3.92 |
| Tieton | Yakima | 1.29 | .41 | | | .19 | | | | | | | | | | | | .03 | | .24 | .43 | .16 | .12 | T. | | | | | | | | | 2.87 |
| Touchet | Columbia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Touchet Ridge | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trinidad | do | .04 | | | | | | | | | | | | | | | | .05 | | T. | .22 | | T. | | | | | | | | | | 0.31 |
| Twisp | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tyee | do | | | | • | .16 | | | | | | | | | | | | | | • | .62 | | .13 | | | | | | | | | 0.91 |
| Vancouver | do | .38 | .33 | .01 | .05 | | | | .05 | | | | | | | | | .08 | .21 | .28 | .03 | | .61 | .05 | | | T. | | .06 | | .03 | | 2.17 |
| Vashon Island | Puget Sound | 1.02 | .31 | .01 | .14 | .23 | T. | .04 | T. | T. | | | | | | | | .16 | .11 | .17 | .07 | T. | .12 | .07 | .01 | T. | | | .05 | T. | .02 | .02 | 2.55 |
| Wahluke | Columbia | | | | | | | | | | | | | | | | | T. | | .08 | | | .25 | | | | | | | | | | 0.33 |
| Wallace | Okanogan | .09 | | | | .02 | | | | | | | | | | | | T. | | .40 | .01 | T. | .02 | .05 | | | | | | | | | 0.59 |
| Walla Walla | Columbia | .21 | .02 | .03 | T. | | | | | | | | | | | | | | .03 | .37 | .20 | | .78 | | | | | T. | | | .01 | | 1.65 |
| Waterville | do | .41 | | | | | | | | T. | | | | | | | | .20 | .02 | .15 | .15 | | .42 | .19 | | | | | | | | | 1.54 |
| Wenatchee (near) | do | .74 | .02 | | T. | | | | | | | | | | | | | .07 | T. | T. | .29 | T. | .35 | T. | | | | | | | | | 1.47 |
| West Branch | Spokane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wilbur | Columbia | | | | | T. | | | | | | | | | | | | .05 | | | .20 | | | .75 | | | | | | | | | 1.00 |
| Yale | do | 3.11 | 1.03 | T. | .37 | .26 | | .15 | .07 | | | | | | | | T. | .20 | .06 | .22 | .17 | | .15 | .08 | T. | | | | .04 | | | .03 | 5.94 |
| Zindel | Snake | .14 | T. | T. | | | | | | | | | | | | | | | .40 | .51 | | .44 | | | | | | | | | | | 1.49 |
| *Oregon.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Albany | Willamette | .52 | .24 | | .04 | | | | | | | | | | | | | .04 | | .38 | .04 | | .01 | .20 | .06 | | | T. | | | | | 1.63 |
| Ashland | Rogue | .03 | | | | | | | | | | | | | | | | | .04 | .01 | | | .84 | .13 | | T. | | | | | | | 1.05 |
| Astoria | Columbia | 4.25 | 1.86 | .08 | .31 | .33 | | .22 | .05 | .01 | T. | | T. | T. | | T. | T. | | .01 | .34 | .28 | T. | .01 | .23 | .13 | | .04 | .01 | .04 | | .08 | .06 | 8.34 |
| Bagleys Ranch | Snake | | .22 | | | | | | | | | | | | | | | | | .81 | 1.01 | | .20 | .06 | | .01 | | | | | | | 2.31 |
| Baker City | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bay City | Coast | 1.71 | .64 | .08 | .38 | .24 | | .19 | .04 | | | | | .03 | | | | .09 | | .48 | .05 | | .19 | .30 | .09 | | .03 | | .02 | | .05 | .05 | 4.66 |
| Bear Creek | Deschutes | .05 | | | | | | | | | | | | | | | | | .11 | | | | .79 | .03 | | | | | | | | | 0.98 |
| Bear Valley | John Day | | T. | | | | | | | | | | | | | | | 1.10 | | | | T. | .40 | | | T. | | | | | | | 1.50 |
| Beaver Creek | Deschutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beach Creek | John Day | .06 | | | | | | | | | | | | | | | | .65 | .85 | .48 | | | .35 | .14 | | | | | | | | | 2.53 |
| Bellfountain | Willamette | .68 | .14 | .01 | .06 | .41 | | | | | | | | | | | .06 | | .11 | .45 | .20 | | .11 | .06 | | | | | | | | | 2.29 |
| Bend | Deschutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Big Basin | John Day | | | | | | | | | | | | | | | | | T. | .01 | T. | | | .90 | | | | | | | | | | 0.91 |
| Birch Creek | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Butte | Willamette | .15 | | .20 | .05 | | | | | | | | | | | | | | .45 | .50 | .15 | .10 | .85 | .50 | | | | | | | | | 2.95 |
| Blalock | Columbia | | | | | | | | | | | | | | | | | | | .07 | | | .08 | | | | T. | | | | | | 0.15 |
| Blue M't'n Sawmill | Umatilla | .60 | .30 | | | | | | | | | | | | | | | | .10 | .70 | .50 | | .70 | .35 | .05 | | | | | | | .20 | 3.50 |
| Buckhorn Farm | Coast | .20 | | | | | .20 | | | | | | | | | | .60 | | .06 | .36 | | | .37 | | | | | | | | | | 1.79 |
| Buena Vista | Snake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Butte Falls | Rogue | .25 | | | | | | | | | | | | | | | | | .02 | .05 | | | 1.21 | .14 | .03 | | .04 | | T. | | | | 1.78 |
| Cableville | Snake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.94 |
| California Gulch | Umatilla | | | | .07 | | | | | | | | | | | | | | | | 1.08 | | | .81 | | | | | | | | | 1.96 |
| Canyon City | John Day | | | | | | | | | | | | | | | | | | .20 | .54 | .15 | | .53 | .18 | T. | | .04 | | | | | | 1.64 |
| Cascade Locks | Columbia | 2.05 | 1.18 | .75 | | .76 | | .18 | .07 | .02 | | | | | | | .03 | .12 | .16 | .25 | .18 | | .27 | .22 | .23 | | | | | | | | 7.53 |
| Cascadia | Willamette | 1.63 | .22 | .15 | .17 | .49 | | | .02 | | | | | | | | | .09 | .22 | .36 | .02 | T. | .92 | .38 | .12 | | | | .12 | | | | 4.91 |
| Cazedero | do | 1.27 | .75 | .25 | .07 | .28 | | .01 | .03 | | | | | | .02 | | | T. | .30 | .03 | T. | | .65 | .55 | | | | | .04 | | | .12 | 4.37 |
| Columbia Mine | Snake | .50 | | | | | | | | | | | | | | | | | .08 | .80 | .47 | | .07 | .01 | | | | | | | | | 1.93 |
| Condon | John Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connor Creek | Snake | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coquille River L. H. | Coast | .40 | .18 | .15 | .09 | | | | | | | | | | | | .12 | .02 | | .11 | .18 | | .85 | .09 | | | | | | | | | 2.19 |
| Cornucopia | Snake | 1.33 | .18 | | .07 | | | | | | | | | | | | | T. | T. | .61 | .74 | | .05 | .03 | .35 | T. | T. | | .02 | | | .05 | 3.43 |
| Corvallis | Willamette | .18 | .04 | | .13 | | | | | | | | | | | | | | .24 | .34 | | .10 | .12 | | .06 | | | T. | | | | | 1.21 |
| Cracker Creek | Snake | .04 | | | | | | | | | | | | | | | | | .05 | .07 | .04 | | | T. | | | | T. | | | | | 0.20 |
| Crescent | Deschutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dayville | John Day | | | | | | | | | | | | | | | T. | | | .07 | .17 | .27 | | .20 | T. | T. | T. | | | | | | | 0.80 |
| Doraville | Columbia | 2.19 | .43 | .02 | .13 | .37 | .01 | .05 | .01 | .01 | | | | | | | | .08 | .02 | .12 | .38 | .26 | T. | .04 | 03 | .01 | | .01 | .01 | .03 | | .03 | .04 | 4.28 |
| Drain | Umpqua | .39 | .05 | .01 | .10 | .16 | | | | | | | | | | | | .02 | .02 | .10 | 1.00 | .05 | | .82 | .14 | | T. | | | | | | | 2.86 |
| Dufur | Deschutes | .05 | .02 | | T. | .02 | | | | | | | | | | | | T. | .02 | .03 | .01 | .22 | | .42 | T. | .01 | | .05 | | | | | | 0.85 |
| Duncan | Umatilla | | | | | | | | | | | | | | | | | | | .02 | 1.10 | | | | | | | | | | | | | 1.12 |
| Echo | do | .05 | .04 | | | | | | | | | | | | | | | T. | T. | .30 | | | .51 | .06 | | | | | | | | | .02 | 0.98 |
| Elkhorn Ranch | Coast | 1.25 | .79 | .15 | .26 | .56 | | | T. | | | | | | | | | | .02 | .40 | .70 | | .80 | .50 | .01 | | | | .18 | | | | | 5.61 |
| Ella | Columbia | | | | | | | | | | | | | | | .04 | | T. | | | .07 | | .22 | | | | | | | T. | | | 0.33 |
| Embody | Deschutes | | | | | | | | | | | | | | | .03 | | | | | | T. | .05 | .01 | T. | | | | | | | | 0.09 |
| Eugene | Willamette | .16 | .13 | .01 | | | | | | | | | | | | | | .01 | | .41 | .08 | | .48 | .38 | .05 | | | | | | | | 1.71 |
| Fairview | Coast | .45 | .32 | .19 | | | | | | | | | | | | T. | | .12 | T. | | | .52 | 1.04 | .76 | | | | | | | | | 3.40 |
| Fall City | Willamette | 1.49 | .18 | | .08 | .53 | | | | .04 | | | | | | | | | .07 | .43 | .13 | .04 | | .02 | | | | | | | | | | 3.01 |
| Fir Glen | Coast | .11 | .05 | | | .25 | | | | | | | | | | .02 | | .02 | | .14 | .48 | | .43 | .41 | .08 | | | T. | .04 | | | | 2.03 |
| Florence | do | 1.01 | .37 | .63 | .03 | .08 | | .02 | .08 | | | | | | | | | | | .60 | .35 | .02 | .45 | .20 | .11 | | T. | | | | | | | 4.01 |
| Forest Grove | Willamette | .08 | .09 | | .07 | .22 | | | .04 | | | | | | | | | | .08 | .31 | .06 | | .08 | .06 | | | | | | | | | 1.09 |
| Fort Rock | Interior | | | | | | | | | | | | | | | | | | .02 | | .05 | | .25 | | | | | | | | | | 0.32 |
| Galice | Rogue | .05 | .02 | | | | | | | | | | | | | .09 | | | | .47 | .42 | | .26 | .06 | .01 | | .01 | | | | | | | 1.39 |
| Gardiner | Umpqua | .73 | .42 | .19 | .03 | .18 | | | .05 | | | | | | | | .04 | | | .44 | .46 | | .48 | .25 | .02 | | | | | | | | | 3.29 |
| Glendale | do | | | | T. | | | | | | | | | .13 | .10 | | | | .30 | .40 | T. | .30 | .40 | | | | | | | | | | | 1.63 |
| Glenora | Coast | 3.55 | 1.07 | .08 | .59 | | .25 | 1.00 | .10 | | | | | | | | | | .23 | .40 | .09 | | .09 | .38 | .08 | | .08 | | .05 | | | .02 | 8.16 |
| Gold Beach | Rogue | .20 | .13 | | | | | | | | | | | | | | | | T. | .88 | | .13 | 2.10 | .65 | | | | | | | | | 4.09 |
| Granite | John Day | .10 | | | | | | | | | | | | | | | | | .10 | 1.40 | .50 | .04 | .02 | .05 | T. | | T. | | | | | | | 2.21 |
| Grants Pass | Rogue | .05 | | | | | | | | | | | | | | .06 | .01 | | .02 | .19 | .30 | | .24 | .36 | .49 | | | | | | | | | 1.72 |
| Grass Valley | John Day | | | | | | | | | | | | | | | | | | | | | | .73 | .14 | | | | | | | | | 0.87 |
| Greenborn | Snake | .90 | | | | | | | | | | | | | | | | | .13 | .68 | .51 | | .17 | .15 | T. | | .01 | | T. | | | | 2.55 |
| Greenleaf | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 2.—*Daily precipitation for March, 1910. District No. 12*—Continued.

| Stations. | River basins. | Day of month. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| *Oregon*—Cont'd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grindstone | Deschutes | .05 | | | | | | | | | | | | | | | | | | .35 | | | .43 | .20 | .05 | T. | T. | | | | | 1.08 |
| Gumboot | Snake | .25 | .05 | | | | | | | | | | | | | | | | T. | .40 | .50 | .10 | .09 | .03 | | | | | T. | | | | 1.42 |
| Gurdane | Columbia | .10 | | .20 | | | | | | | | | | | | | | | T. | .35 | T. | | .60 | .04 | | | .10 | | | | | T. | 1.39 |
| Happy Home | Umpqua | .22 | | | .12 | .08 | | | .14 | | | | | | | .28 | .07 | | | .54 | .12 | .05 | .52 | .22 | .31 | | .11 | .08 | .40 | | | | 3.26 |
| Hay Creek | Deschutes | | | | | | | | | | | | | | | | | | .08 | | .09 | | .58 | .01 | | | | | | | | | 0.76 |
| Haseldell | Willamette | .17 | .14 | .34 | .17 | | | | | | | | | T. | | | | | .44 | T. | | .65 | .53 | T. | | | | | T. | | | | 2.44 |
| Head Works | do | 1.65 | 1.10 | .27 | .13 | .31 | | .12 | .09 | | | | | | | | | .12 | .47 | .27 | .08 | | 1.85 | .18 | .17 | | T. | | .32 | | | .14 | 7.27 |
| Heppner | Columbia | T. | .03 | | | T. | | | | | | | | | | | | T. | | .05 | .04 | T. | .93 | .07 | T. | | .06 | | | | | .02 | 1.20 |
| Hermiston | Umatilla | | | | | | | | | | | | | | | | | .05 | | .18 | | | .77 | | | | | | | | | .02 | 1.02 |
| Hilgard | Grande Ronde | .10 | | | | | | | | | | | | | | | | | .10 | .50 | .30 | | .40 | | .40 | | | | .10 | | | | 1.90 |
| Hood River | Columbia | .07 | .25 | .05 | | | | | | | | | | | | | | | | .04 | | | .01 | | .07 | | | | | .07 | | | 0.56 |
| Hoover | Willamette | 2.00 | .58 | | .40 | .63 | | | | | | | | | .24 | | | | .20 | | | | .60 | .30 | | | | .15 | | | | 5.10 |
| Howardville Station | Grande Ronde | 1.02 | .10 | .05 | | .03 | | | | | | | | | | | | | .09 | .41 | 1.06 | | .71 | .11 | .02 | | T. | | .02 | | | .08 | 3.70 |
| Huntington | Snake | | | | | | | | | | | | | | | | | | | .20 | | | | 1.25 | | | | | | | | | 1.45 |
| Ibex Mine | John Day | .10 | | | | T. | | | | | | | | | | | | | .14 | .58 | .77 | | .04 | .18 | T. | | .01 | T. | .02 | | | | 1.84 |
| Ironside | Snake | | | | | | | | | | | | | | | | | .45 | .50 | | | | | T. | | | | | | | | | 0.95 |
| Jacksonville | Rogue | .03 | | | | | | | | | | | | | | | | | .07 | .10 | | | .42 | .08 | .07 | | | | | | | | 0.77 |
| Joseph | Grande Ronde | .40 | .10 | | | | | | | | | | | | | | | .02 | .01 | .20 | 1.00 | .05 | .23 | .40 | .10 | .02 | | | | | | | 2.59 |
| Kamela | do | .20 | | | | .10 | | | | | | | | | | | | | | .20 | .50 | | .60 | .20 | | .10 | | | | | | | 1.90 |
| La Grande | do | .42 | .02 | | | | | | | | | | | | | | | | 1.13 | .67 | T. | | .17 | .16 | .02 | | .02 | | | | | | 2.61 |
| Lilyglen | Rogue | .12 | | | T. | | | | | | | | | T. | | | | | .05 | .25 | | .02 | .78 | .28 | T. | .01 | | | | | | | 1.51 |
| Long Creek | John Day | .12 | T. | | | | | | | | | | | | | | | | .25 | .50 | .08 | | .32 | .03 | | .03 | | | | | | | 1.23 |
| Madras | Deschutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maury | do | .27 | | | | | | | | | | | | | T. | T. | | | .15 | | | | .78 | .15 | | | | | | | | | 1.38 |
| McKenzie Pridge | Willamette | 1.93 | .13 | .30 | .41 | .44 | | .03 | .06 | | | | | | | | | | .15 | .35 | .04 | | .75 | .18 | .07 | | .07 | .08 | .07 | | | | 5.06 |
| McMinnville | do | .60 | .22 | | .10 | .16 | | T. | T. | | | | | | | | | | .15 | .28 | .10 | | .04 | | | | T. | | | | T. | | 1.65 |
| Meacham | Umatilla | .21 | .13 | .13 | .19 | | | | | | | | | | | | | | | | | T. | T. | T. | T. | T. | T. | | | | | | 0.66 |
| Metolius | Deschutes | .98 | | .01 | | .03 | | | | | | | | | .03 | | | | T. | | .10 | | .27 | T. | | | .02 | .02 | | | | | 1.46 |
| Mikkalo | John Day | | | | | | | | | | | | | | | | | | | .06 | T. | | .57 | .02 | | | | | | | | | 0.65 |
| Miller Prairie | Columbia | | .32 | | | | | | | | | | | | | | | | | .22 | .04 | | .55 | .23 | .02 | .25 | | | | | | | 1.63 |
| Miramonte Farm | Willamette | .36 | .34 | .01 | .03 | .16 | | .01 | | | | | | | .05 | | | | .32 | .30 | .02 | | .28 | .08 | | | | | | | .04 | | 2.00 |
| Monroe | do | .40 | .17 | .16 | .04 | | | | | | | | | | | | T. | .05 | .08 | .20 | .40 | | | | | | | | | | | | 1.50 |
| Mountainhome | Columbia | 2.53 | .47 | | .31 | .40 | | | .12 | | | | | | | | | .11 | .25 | .35 | .32 | | .11 | .10 | | | .02 | | | | .02 | | 5.14 |
| Mount Angel | Willamette | .95 | .07 | | .12 | | | | | | | | | | | | | | .25 | .15 | | | .45 | .13 | | | | | | | | | 2.12 |
| Mount Hood | Columbia | 1.65 | .46 | | T. | .32 | | | | | | | | | | T. | .02 | .20 | | | | .09 | | .04 | .25 | | T. | | T. | | | 3.03 |
| Mountain Park | do | 2.80 | .90 | .31 | .20 | .47 | .03 | | | | | | | | | | | .10 | | .45 | | .37 | .17 | | .15 | T. | | .35 | .08 | | T. | | 6.38 |
| Mountain Ranch | Rogue | .02 | .01 | | | | | | | | | | | | | T. | | | .14 | .60 | .25 | | .39 | .06 | | | | | | | | | 1.47 |
| Musick | Umpqua | 1.63 | .56 | .60 | .50 | .18 | | | .35 | | | | | T. | .11 | | | | .45 | .56 | | .03 | .78 | .31 | .18 | | | | | | | | 6.24 |
| Newport | Coast | 1.55 | .51 | .03 | .09 | .10 | | .10 | .04 | | | | | | .02 | | | | | .65 | .48 | | .20 | .07 | | | | | .06 | | | | 3.90 |
| Nigger Flat | Malheur | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ochoco | Deschutes | .08 | | | | | | | | | | | | | | | | | .30 | | | | .65 | T. | | | | | | | | | 1.03 |
| Ochoco Creek | do | .14 | | | | | | | | | | | | | | | | | .15 | .10 | | | .98 | | | T. | T. | | | | | | 1.37 |
| Owyhee | Owyhee | | | | | | | | | | | | | | | | | | T. | .20 | .20 | | | | | .12 | | | | | | | 0.52 |
| Pendleton | Umatilla | .05 | .06 | | | | | | | | | | | | | | | | .04 | .17 | .02 | T. | .50 | .07 | .01 | T. | | | | | | | 0.92 |
| Persist | Rogue | .24 | | | | | | | | | | | | | | | | | | | | | 1.04 | .20 | | | | | | | | | 1.48 |
| Pilot Rock | Umatilla | .03 | .12 | .01 | | | | | | | | | | | | | | | | .10 | .02 | | .41 | .06 | | .06 | | .02 | | | | | 0.83 |
| Pompeii | Willamette | 2.98 | 1.11 | .35 | .15 | .80 | | .15 | .11 | | | | | | | | | T. | .25 | | .17 | | .68 | .60 | .10 | | | | .20 | | | | 7.65 |
| Portland | do | .27 | .52 | | .11 | .05 | | T. | T. | | | | | | T. | .04 | .07 | T. | .36 | .12 | T. | | .60 | T. | | | .01 | .01 | .06 | | .03 | | 2.25 |
| Post | Deschutes | .02 | | | | | | | | | | | | | | | .02 | | .07 | .05 | | | .56 | | .02 | | | | | | | | 0.79 |
| Power House | Walla Walla | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prineville | Deschutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prospect | Rogue | .50 | | | | | | | | | | | | | | | | | T. | T. | T. | | T. | .10 | .15 | | .09 | | | | | | 0.84 |
| Rager Creek | Deschutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ramsey | Columbia | .12 | .04 | | T. | .06 | | | | | | | | | | | | | .03 | .02 | .20 | | .26 | .02 | | | .05 | | | | | | 0.80 |
| Range | John Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ray Creek | Columbia | | | | | | | | | | | | | | | | | | | .10 | | | .79 | | | | | | | | | | 0.89 |
| Reston | Umpqua | .16 | .05 | | | .08 | | | | | | | | | | .02 | | | T. | .27 | .49 | | .30 | .15 | | T. | .01 | | .02 | | | | 1.55 |
| Richland | Snake | .15 | | | | | | | | | | | | | | | | | | | .96 | T. | | T. | | | | | | | | | 1.11 |
| Riverdale Ranch | Deschutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Riverside | Malheur | | | | | | | | | | | | | | | | T. | .02 | | .25 | .30 | .05 | .08 | .25 | | | | | | | | | 0.85 |
| Rock Creek | Willamette | 1.09 | .46 | .56 | .17 | | | | | | | | | | | | | | .62 | .16 | | | | | .23 | | | | | | | | 3.29 |
| Roseburg | Umpqua | .01 | .02 | | .01 | .01 | | | | | | | | | | | .08 | .01 | .21 | .45 | .09 | | .99 | .10 | | | | | .02 | | | | 2.00 |
| Rosland | Deschutes | .11 | | | | | | | | | | | | T. | | | | | | | .10 | .05 | .25 | | | | | | | | | | 0.51 |
| Salem | Willamette | .34 | .14 | | .04 | .10 | | T. | | | | | | | | | T. | T. | .06 | .24 | .02 | | .26 | T. | .04 | | | T. | | | | T. | 1.24 |
| Seneca | Interior | .04 | | | | | | | | | | | | | | | | | .33 | .60 | .26 | | .21 | .18 | | | | | | | | | 1.62 |
| Siskiyou | Rogue | .13 | | | | | | | | | | | | | | | | | .14 | .46 | .03 | | .81 | .42 | .12 | | T. | T. | .08 | | | | 2.19 |
| Sisters | Deschutes | .23 | | | | .05 | | | | | | | | | | | | | | | .29 | .04 | .21 | | | .02 | .04 | | | | | | 0.88 |
| Sparta | Snake | .03 | | | | | | | | | | | | | | | | | .02 | .04 | .40 | .20 | | | | | | | | | | | 0.69 |
| Stafford | Willamette | .51 | .34 | .02 | T. | .18 | | .02 | | | | | | | .02 | | .01 | .10 | .26 | .43 | .06 | | .56 | .09 | | | T. | | | | .04 | | 2.64 |
| Starkey | Grande Ronde | | | | | | | | | | | | | | | | | | .10 | .25 | .30 | T. | .25 | | | | | | | | | | 0.90 |
| Summit | Willamette | 1.60 | .62 | .05 | .30 | .32 | .30 | T. | T. | | | | | | | | | | | .66 | .23 | | .09 | .17 | | | | | | | | | 4.34 |
| Summit Prairie | Deschutes | .05 | | | | | | | | | | | | | | | | | .17 | .17 | .05 | | .50 | | | | | | | | | | 0.94 |
| Susanville | John Day | .04 | | | | | | | | | | | | | | | | | .34 | .12 | .25 | | .18 | .15 | .01 | | T. | | | | | | 1.09 |
| Tamarack | do | | | | | | | | | | | | | | | | | | | | .30 | | .84 | .20 | | | | | | | | | 1.34 |
| Telocaset | Snake | .01 | | | | | | | | | | | | | | | | .01 | .01 | | .03 | .14 | .16 | .20 | | | | | | | | | 0.56 |
| The Dalles | Columbia | .15 | .05 | | | .04 | | | | | | | | | | | | T. | .03 | T. | .06 | .08 | T. | | | | | | | | | | 0.41 |
| The Heads | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tinroot Cabin | Umatilla | | | | | | | | | | | | | | | | | | | | | | | .05 | | | | | | | | | 0.05 |
| Toledo | Coast | 1.70 | .60 | .10 | .20 | | | | | | | | | | | | | | | | .50 | | .20 | .45 | | | | | | | | | 3.75 |
| Trask | do | 2.00 | 1.50 | .65 | | 1.00 | | | | | | | | | | | | .21 | .15 | .40 | .08 | | .40 | .25 | .12 | | | | | | | .55 | 7.31 |
| Umatilla | Columbia | .05 | | | | | | | | | | | | | | | T. | | | .10 | | | .90 | | | | | | | | | .02 | | 1.07 |
| Unity | Snake | | | | | | | | | | | | | | | | | | T. | .84 | .26 | T. | .07 | .15 | T. | | T. | | | | | | 1.32 |
| Vale | Malheur | | | | | | | | | | | | | | | | | | | .29 | .47 | .06 | | .08 | | | | | | | | | 0.90 |
| Van | do | | | | | | | | | | | | | | | | | | .17 | .53 | .50 | T. | T. | | | | | | | | | | 1.20 |
| Wallace Orchard | Willamette | .36 | .24 | | | .21 | | | | | | | | | | | T. | .05 | .04 | .25 | .02 | | .15 | .02 | | | T. | | | | T. | | 1.34 |
| Walloupa | Grande Ronde | 1.20 | .11 | .04 | | .01 | | | .11 | | | | | | | | | | .09 | .03 | 1.29 | .06 | .67 | .12 | | T. | | | | | | .01 | 3.74 |
| Wallowa | do | .31 | .03 | .07 | | | | | T. | | | | | | | | | | T. | .20 | .18 | .11 | .30 | .17 | .11 | .01 | | .02 | T. | | T. | .10 | 1.61 |
| Wamic | Deschutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Warmspring | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wasco | Columbia | .18 | | | | | | | | | | | | | | | | | | | .05 | | .40 | | | | | | | | | | 0.63 |
| Welches | Umatilla | 3.07 | 1.49 | .49 | .43 | .49 | | .15 | .17 | | | | | .03 | | | | .23 | .06 | .40 | | .53 | .97 | | | | | .37 | | | | .32 | 9.20 |
| Weneha Springs | do | .70 | | | | | | | | | | | | | | | | | T. | .37 | .23 | | .65 | .64 | | | | | | | | .06 | 2.65 |
| Weston | Walla Walla | .15 | .08 | .05 | | | | | | | | | | | | | | | .20 | .25 | .05 | T. | .20 | .23 | T. | | .10 | | | | | .05 | 1.36 |
| Willamina | Willamette | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Williams | Rogue | | | | | | | | | | | | | | | T. | T. | | T. | .41 | .21 | T. | .16 | T. | | | | | | | | | 0.78 |

TABLE 3.—*Maximum and minimum temperatures at selected stations for March, 1910. District No. 12, Columbia Valley.*

| Date. | Montana. | | | | Wyo. | | Idaho. | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Kalispell. | | Missoula. | | Afton, | | Boise. | | Bonners Ferry. | | Hotspring. | | Lewiston. | | Mackay.[1] | | Meadows. | | Pocatello. | | Salmon. | | Shoshone. | | Vernon. | | Wallace. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 49 | 28 | 45 | 30 | 45 | 27 | 53 | 42 | 50 | 30 | ..... | ..... | 59 | 39 | 46 | 24 | 45 | 32 | 53 | 39 | 45 | 32 | 48 | 33 | 37 | 29 | 49 | 27 |
| 2... | 48 | 35 | 49 | 35 | 52 | 34 | 63 | 44 | 54 | 45 | ..... | ..... | 53 | 42 | 49 | 22 | 49 | 34 | 57 | 40 | 55 | 34 | 50 | 29 | 42 | 33 | 48 | 36 |
| 3... | 47 | 32 | 48 | 36 | 54 | 23 | 62 | 38 | 50 | 30 | ..... | ..... | 55 | 42 | 50 | 26 | 38 | 32 | 57 | 36 | 55 | 32 | 51 | 33 | 45 | 29 | 47 | 35 |
| 4... | 50 | 35 | 49 | 33 | 51 | 23 | 62 | 38 | 47 | 34 | ..... | ..... | 58 | 41 | 43 | 24 | 51 | 33 | 56 | 35 | 55 | 31 | 53 | 31 | 42 | 30 | 46 | 35 |
| 5... | 40 | 20 | 39 | 29 | 58 | 26 | 53 | 36 | 48 | 20 | 62 | 34 | 51 | 33 | 40 | 15 | 50 | 34 | 51 | 34 | 51 | 29 | 50 | 28 | 39 | 18 | 39 | 32 |
| 6... | 42 | 19 | 44 | 21 | 46 | 14 | 58 | 31 | 44 | 36 | 60 | 30 | 55 | 30 | 45 | 16 | 51 | 13 | 55 | 28 | 48 | 20 | 50 | 24 | 45 | 16 | 46 | 19 |
| 7... | 45 | 28 | 50 | 27 | 48 | 20 | 56 | 33 | 48 | 32 | 60 | 30 | 58 | 34 | 45 | 24 | 49 | 17 | 56 | 29 | 50 | 20 | 54 | 29 | 41 | 19 | 46 | 34 |
| 8... | 37 | 28 | 45 | 30 | 45 | 15 | 54 | 33 | 44 | 27 | 64 | 31 | 56 | 39 | 42 | 27 | 49 | 23 | 50 | 34 | 51 | 25 | 51 | 26 | 40 | 20 | 46 | 30 |
| 9... | 39 | 24 | 51 | 26 | 40 | 23 | 57 | 35 | 50 | 23 | 62 | 36 | 57 | 36 | 39 | 21 | 51 | 25 | 48 | 30 | 50 | 26 | 50 | 30 | 43 | 15 | 49 | 27 |
| 10... | 50 | 32 | 58 | 30 | 38 | 7 | 58 | 32 | 55 | 28 | 60 | 28 | 64 | 38 | 46 | 24 | 53 | 16 | 52 | 28 | 51 | 26 | 52 | 26 | 44 | 23 | 58 | 33 |
| 11... | 53 | 29 | 61 | 26 | 40 | 10 | 63 | 35 | 60 | 25 | 63 | 31 | 69 | 36 | 44 | 25 | 55 | 19 | 56 | 28 | 55 | 21 | 57 | 29 | 44 | 17 | 58 | 29 |
| 12... | 59 | 29 | 64 | 28 | 43 | 15 | 63 | 36 | 64 | 26 | 67 | 29 | 69 | 38 | 46 | 26 | 61 | 19 | 60 | 28 | 57 | 21 | 60 | 31 | 48 | 21 | 52 | 31 |
| 13... | 60 | 32 | 65 | 28 | 43 | 14 | 69 | 37 | 62 | 28 | 72 | 35 | 69 | 38 | 51 | 25 | 58 | 19 | 64 | 28 | 59 | 22 | 65 | 34 | 47 | 21 | 46 | 30 |
| 14... | 62 | 31 | 65 | 28 | 41 | 13 | 66 | 40 | 65 | 27 | 71 | 44 | 69 | 39 | 55 | 26 | 59 | 22 | 64 | 27 | 60 | 22 | 65 | 35 | 52 | 20 | 56 | 31 |
| 15... | 64 | 33 | 65 | 28 | 48 | 15 | 70 | 39 | 66 | 28 | 69 | 34 | 70 | 38 | 67 | 29 | 60 | 22 | 64 | 28 | 61 | 23 | 65 | 35 | 51 | 20 | 63 | 30 |
| 16... | 59 | 30 | 66 | 28 | 49 | 20 | 69 | 40 | 66 | 25 | 72 | 34 | 69 | 39 | 56 | 29 | 61 | 23 | 64 | 28 | 63 | 23 | 67 | 35 | 52 | 24 | 63 | 30 |
| 17... | 52 | 32 | 56 | 31 | 52 | 20 | 66 | 45 | 58 | 32 | 75 | 37 | 66 | 46 | 56 | 31 | 57 | 27 | 67 | 36 | 59 | 24 | 69 | 36 | 50 | 24 | 55 | 33 |
| 18... | 60 | 28 | 70 | 33 | 54 | 24 | 74 | 49 | 60 | 31 | 76 | 32 | 64 | 42 | 60 | 32 | 60 | 27 | 70 | 39 | 68 | 27 | 71 | 40 | 53 | 28 | 63 | 32 |
| 19... | 62 | 38 | 70 | 36 | 60 | 28 | 74 | 48 | 65 | 31 | 77 | 46 | 72 | 48 | 62 | 33 | 56 | 34 | 69 | 45 | 69 | 36 | 69 | 46 | 57 | 34 | 64 | 36 |
| 20... | 62 | 36 | 70 | 37 | 60 | 28 | 56 | 44 | 66 | 34 | 76 | 40 | 57 | 47 | 62 | 30 | 53 | 34 | 69 | 46 | 75 | 32 | 70 | 34 | 63 | 35 | 62 | 36 |
| 21... | 64 | 37 | 67 | 43 | 62 | 31 | 64 | 42 | 65 | 34 | 73 | 40 | 62 | 45 | 60 | 34 | 53 | 34 | 70 | 48 | 72 | 33 | 69 | 38 | 64 | 35 | 63 | 32 |
| 22... | 49 | 40 | 58 | 43 | 62 | 33 | 61 | 41 | 54 | 34 | 70 | 49 | 61 | 47 | 60 | 42 | 45 | 34 | 65 | 49 | 66 | 43 | 62 | 42 | 63 | 38 | 49 | 39 |
| 23... | 44 | 35 | 47 | 38 | 53 | 25 | 53 | 33 | 58 | 34 | 60 | 46 | 50 | 38 | 58 | 42 | 41 | 32 | 49 | 36 | 62 | 36 | 52 | 33 | 46 | 33 | 45 | 34 |
| 24... | 46 | 30 | 48 | 27 | 43 | 23 | 49 | 31 | 45 | 27 | 52 | 33 | 49 | 35 | 60 | 40 | 43 | 19 | 45 | 30 | 47 | 31 | 47 | 30 | 38 | 28 | 42 | 30 |
| 25... | 46 | 24 | 53 | 21 | 47 | 22 | 54 | 32 | 45 | 20 | 55 | 31 | 56 | 31 | 46 | 38 | 53 | 17 | 59 | 28 | 57 | 20 | 56 | 34 | 58 | 27 | 48 | 22 |
| 26... | 53 | 25 | 55 | 22 | 45 | 30 | 56 | 37 | 53 | 20 | 65 | 38 | 58 | 32 | 45 | 23 | 54 | 28 | 53 | 37 | 57 | 25 | 55 | 36 | 50 | 32 | 50 | 24 |
| 27... | 50 | 25 | 53 | 26 | 47 | 26 | 56 | 37 | 52 | 20 | 61 | 35 | 62 | 32 | 45 | 30 | 55 | 29 | 52 | 35 | 60 | 24 | 56 | 32 | 49 | 28 | 49 | 26 |
| 28... | 49 | 28 | 48 | 26 | 46 | 30 | 53 | 38 | 50 | 38 | 60 | 41 | 52 | 40 | 44 | 37 | 50 | 27 | 48 | 34 | 55 | 35 | 53 | 36 | 48 | 31 | 44 | 30 |
| 29... | 50 | 27 | 62 | 24 | 43 | 13 | 51 | 30 | 52 | 18 | 55 | 31 | 59 | 31 | 44 | 22 | 52 | 18 | 48 | 26 | 52 | 22 | 50 | 27 | 42 | 24 | 49 | 20 |
| 30... | 58 | 26 | 60 | 22 | 45 | 12 | 65 | 34 | 59 | 30 | 67 | 30 | 59 | 36 | 56 | 28 | 59 | 22 | 60 | 28 | 60 | 38 | 62 | 23 | 53 | 21 | 53 | 28 |
| 31... | 55 | 35 | 56 | 39 | 56 | 22 | 60 | 41 | 58 | 38 | 70 | 40 | 64 | 42 | 52 | 27 | 59 | 35 | 63 | 38 | 56 | 30 | 63 | 31 | 53 | 30 | 50 | 35 |
| Mns | 51.7 | 30.4 | 56.0 | 30.0 | 48.9 | 21.5 | 60.3 | 37.8 | 55.3 | 29.0 | 65.7[4] | 35.5[4] | 60.4 | 38.7 | 50.8 | 28.1 | 52.9 | 25.8 | 57.9 | 34.0 | 57.5 | 27.8 | 57.8 | 32.6 | 48.4 | 25.9 | 52.1 | 30.5 |

| Date. | Washington. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Aberdeen. | | Blaine. | | Colville. | | Kosmos. | | Lakeside. | | North Head. | | North Yakima. | | Odessa. | | Port Crescent. | | Seattle. | | Sisprong. | | Spokane. | | Tacoma. | | Tatoosh Island. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 48 | 42 | 52 | 34 | 53 | 33 | 46 | 34 | 48 | 32 | 47 | 46 | 58 | 32 | 56 | 37 | 54 | 37 | 51 | 44 | 60 | 40 | 53 | 36 | 52 | 45 | 48 | 44 |
| 2... | 49 | 45 | 52 | 47 | 57 | 43 | 44 | 36 | 55 | 35 | 48 | 45 | 66 | 39 | 58 | 36 | 50 | 38 | 52 | 46 | 62 | 43 | 55 | 44 | 55 | 48 | 46 | 42 |
| 3... | 48 | 45 | 51 | 40 | 55 | 30 | 46 | 38 | 57 | 37 | 45 | 44 | 64 | 30 | 59 | 35 | 51 | 38 | 50 | 46 | 58 | 41 | 53 | 42 | 51 | 46 | 46 | 39 |
| 4... | 46 | 42 | 45 | 39 | 54 | 31 | 46 | 38 | 54 | 40 | 46 | 40 | 59 | 30 | 47 | 38 | 43 | 35 | 49 | 37 | 59 | 40 | 53 | 40 | 52 | 40 | 44 | 36 |
| 5... | 44 | 31 | 44 | 35 | 47 | 31 | 41 | 33 | 47 | 33 | 50 | 35 | 47 | 34 | 45 | 34 | 43 | 31 | 45 | 35 | 52 | 36 | 45 | 31 | 45 | 34 | 44 | 35 |
| 6... | 47 | 36 | 42 | 31 | 50 | 22 | 45 | 29 | 42 | 26 | 45 | 35 | 51 | 25 | 54 | 26 | 41 | 28 | 46 | 31 | 49 | 30 | 52 | 26 | 47 | 28 | 45 | 38 |
| 7... | 55 | 37 | 50 | 34 | 50 | 31 | 44 | 38 | 49 | 30 | 51 | 40 | 59 | 31 | 56 | 26 | 45 | 32 | 50 | 41 | 58 | 38 | 50 | 34 | 50 | 40 | 47 | 38 |
| 8... | 47 | 40 | 48 | 36 | 51 | 26 | 48 | 36 | 49 | 32 | 49 | 41 | 60 | 32 | 57 | 26 | 46 | 34 | 51 | 42 | 59 | 37 | 51 | 33 | 54 | 42 | 45 | 41 |
| 9... | 51 | 42 | 48 | 37 | 55 | 24 | 58 | 34 | 51 | 30 | 55 | 39 | 62 | 33 | 60 | 37 | 47 | 38 | 53 | 43 | 62 | 36 | 54 | 28 | 53 | 44 | 46 | 42 |
| 10... | 61 | 38 | 51 | 40 | 62 | 35 | 59 | 31 | 55 | 35 | 58 | 41 | 66 | 34 | 64 | 32 | 51 | 38 | 56 | 41 | 66 | 34 | 62 | 36 | 55 | 42 | 54 | 44 |
| 11... | 65 | 40 | 56 | 31 | 65 | 27 | 65 | 31 | 57 | 33 | 59 | 45 | 68 | 34 | 66 | 32 | 52 | 33 | 64 | 38 | 67 | 39 | 64 | 34 | 68 | 36 | 55 | 43 |
| 12... | 71 | 41 | 58 | 35 | 75 | 29 | 79 | 31 | 58 | 34 | 52 | 43 | 72 | 36 | 69 | 34 | 60 | 33 | 64 | 40 | 70 | 40 | 66 | 34 | 66 | 38 | 56 | 44 |
| 13... | 57 | 43 | 59 | 32 | 73 | 28 | 80 | 35 | 58 | 34 | 45 | 42 | 72 | 44 | 75 | 31 | 59 | 38 | 66 | 40 | 72 | 42 | 67 | 39 | 70 | 39 | 46 | 41 |
| 14... | 67 | 45 | 59 | 32 | 75 | 29 | 75 | 34 | 62 | 35 | 47 | 44 | 73 | 41 | 69 | 36 | 56 | 39 | 53 | 41 | 74 | 43 | 67 | 33 | 56 | 43 | 49 | 43 |
| 15... | 66 | 47 | 59 | 33 | 72 | 27 | 60 | 34 | 61 | 35 | 54 | 46 | 73 | 44 | 74 | 37 | 54 | 39 | 59 | 39 | 70 | 45 | 69 | 36 | 62 | 40 | 46 | 42 |
| 16... | 65 | 48 | 55 | 35 | 74 | 26 | 64 | 41 | 61 | 36 | 55 | 48 | 74 | 48 | 73 | 37 | 58 | 41 | 67 | 45 | 72 | 46 | 68 | 42 | 66 | 45 | 57 | 43 |
| 17... | 64 | 43 | 56 | 46 | 63 | 35 | 64 | 41 | 60 | 40 | 52 | 46 | 71 | 44 | 74 | 42 | 51 | 41 | 56 | 48 | 69 | 50 | 60 | 44 | 55 | 48 | 51 | 46 |
| 18... | 61 | 47 | 61 | 45 | 67 | 34 | 61 | 43 | 51 | 41 | 55 | 48 | 68 | 46 | 73 | 49 | 53 | 44 | 59 | 45 | 67 | 46 | 64 | 43 | 56 | 46 | 55 | 48 |
| 19... | 58 | 46 | 59 | 46 | 52 | 39 | 57 | 41 | 49 | 42 | 53 | 46 | 62 | 47 | 68 | 49 | 52 | 46 | 57 | 49 | 62 | 47 | 64 | 48 | 55 | 48 | 50 | 47 |
| 20... | 55 | 43 | 50 | 43 | 55 | 45 | 63 | 44 | 57 | 41 | 48 | 45 | 67 | 49 | 64 | 46 | 49 | 46 | 57 | 46 | 67 | 48 | 58 | 46 | 54 | 46 | 49 | 44 |
| 21... | 63 | 46 | 51 | 41 | 64 | 37 | 60 | 43 | 56 | 41 | 52 | 44 | 68 | 44 | 62 | 41 | 50 | 37 | 50 | 45 | 64 | 44 | 63 | 42 | 49 | 45 | 52 | 45 |
| 22... | 50 | 40 | 50 | 43 | 58 | 36 | 56 | 39 | 54 | 40 | 46 | 41 | 52 | 45 | 59 | 41 | 50 | 39 | 50 | 41 | 60 | 44 | 54 | 40 | 52 | 38 | 46 | 39 |
| 23... | 49 | 37 | 48 | 40 | 47 | 36 | 51 | 32 | 51 | 37 | 45 | 38 | 52 | 35 | 54 | 33 | 46 | 33 | 46 | 37 | 50 | 34 | 43 | 36 | 48 | 35 | 46 | 39 |
| 24... | 52 | 34 | 48 | 31 | 48 | 28 | 50 | 33 | 55 | 34 | 46 | 38 | 55 | 26 | 50 | 30 | 45 | 30 | 49 | 39 | 53 | 33 | 42 | 30 | 50 | 37 | 48 | 38 |
| 25... | 54 | 36 | 50 | 30 | 50 | 24 | 60 | 28 | 53 | 30 | 49 | 38 | 57 | 27 | 51 | 27 | 45 | 28 | 56 | 33 | 54 | 30 | 49 | 25 | 55 | 30 | 47 | 39 |
| 26... | 58 | 34 | 51 | 30 | 52 | 24 | 65 | 28 | 54 | 34 | 48 | 41 | 60 | 28 | 54 | 38 | 48 | 34 | 54 | 38 | 58 | 37 | 52 | 27 | 54 | 34 | 48 | 42 |
| 27... | 62 | 32 | 55 | 31 | 51 | 25 | 65 | 28 | 60 | 37 | 53 | 44 | 64 | 35 | 59 | 30 | 49 | 35 | 58 | 37 | 63 | 38 | 55 | 32 | 59 | 36 | 50 | 39 |
| 28... | 56 | 45 | 51 | 36 | 53 | 28 | 51 | 33 | 53 | 41 | 47 | 40 | 54 | 41 | 51 | 37 | 48 | 35 | 54 | 38 | 58 | 40 | 49 | 34 | 53 | 38 | 47 | 40 |
| 29... | 58 | 45 | 52 | 36 | 47 | 26 | 66 | 29 | 60 | 32 | 51 | 40 | 62 | 29 | 54 | 35 | 49 | 33 | 59 | 37 | 63 | 30 | 52 | 30 | 61 | 35 | 47 | 42 |
| 30... | 50 | 35 | 51 | 42 | 58 | 34 | 60 | 34 | 64 | 35 | 48 | 45 | 67 | 35 | 60 | 31 | 48 | 34 | 51 | 43 | 60 | 29 | 58 | 38 | 52 | 44 | 47 | 42 |
| 31... | 58 | 32 | 50 | 39 | 52 | 36 | 61 | 39 | 61 | 35 | 46 | 37 | 65 | 38 | 63 | 30 | 46 | 29 | 52 | 40 | 63 | 40 | 57 | 37 | 54 | 37 | 48 | 39 |
| Mns | 56.0 | 40.5 | 52.0 | 37.1 | 57.6 | 30.9 | 57.7 | 35.1 | 54.9 | 35.4 | 49.8 | 42.1 | 62.8 | 36.6 | 60.6 | 35.0 | 49.6 | 35.8 | 54.3 | 40.8 | 62.0 | 39.6 | 56.4 | 36.1 | 55.1 | 40.2 | 48.5 | 41.4 |

TABLE 3.—*Maximum and minimum temperatures at selected stations for March, 1910. District No. 12*—Continued.

| Date. | Walla Walla, Wash. | | Oregon. | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ashland. | | Baker City. | | Eugene. | | Gold Beach. | | Hermiston. | | Marshfield. | | Portland. | | Prineville. | | Roseburg. | | The Dalles. | | Vale. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 | 59 | 45 | 58 | 45 | ..... | ..... | 57 | 45 | 56 | 48 | 60 | 42 | 54 | 50 | 57 | 50 | ..... | ..... | 63 | 50 | 58 | 41 | 52 | 32 |
| 2 | 59 | 50 | 62 | 47 | ..... | ..... | 59 | 52 | 57 | 49 | 61 | 42 | 58 | 53 | 57 | 50 | ..... | ..... | 67 | 46 | 65 | 46 | 53 | 32 |
| 3 | 59 | 47 | 67 | 40 | ..... | ..... | 60 | 48 | 56 | 48 | 64 | 45 | 54 | 49 | 59 | 47 | ..... | ..... | 63 | 47 | 61 | 46 | 53 | 30 |
| 4 | 62 | 46 | 59 | 38 | ..... | ..... | 59 | 45 | 55 | 45 | 65 | 40 | 53 | 46 | 57 | 44 | ..... | ..... | 62 | 41 | 60 | 43 | 56 | 30 |
| 5 | 48 | 36 | 53 | 36 | ..... | ..... | 56 | 39 | 51 | 40 | 60 | 39 | 52 | 43 | 50 | 38 | ..... | ..... | 51 | 34 | 56 | 39 | 55 | 30 |
| 6 | 48 | 27 | 58 | 32 | ..... | ..... | 51 | 30 | 50 | 35 | 54 | 23 | 55 | 30 | 54 | 33 | ..... | ..... | 57 | 31 | 51 | 27 | 53 | 25 |
| 7 | 57 | 42 | 58 | 33 | ..... | ..... | 57 | 33 | 60 | 36 | 63 | 37 | 58 | 36 | 52 | 44 | ..... | ..... | 64 | 33 | 57 | 36 | 57 | 28 |
| 8 | 57 | 45 | 60 | 40 | ..... | ..... | 63 | 41 | 56 | 41 | 61 | 41 | 54 | 46 | 56 | 46 | ..... | ..... | 64 | 44 | 59 | 40 | 64 | 30 |
| 9 | 62 | 41 | 65 | 39 | ..... | ..... | 62 | 43 | 60 | 42 | 65 | 30 | 61 | 45 | 58 | 45 | ..... | ..... | 63 | 42 | 62 | 38 | 61 | 35 |
| 10 | 65 | 41 | 67 | 39 | ..... | ..... | 50 | 40 | 71 | 43 | 66 | 31 | 66 | 39 | 62 | 42 | ..... | ..... | 62 | 40 | 65 | 37 | 61 | 27 |
| 11 | 67 | 43 | 75 | 41 | ..... | ..... | 62 | 40 | 61 | 39 | 72 | 31 | 60 | 40 | 70 | 43 | ..... | ..... | 73 | 38 | 66 | 36 | 61 | 27 |
| 12 | 71 | 45 | 72 | 42 | ..... | ..... | 67 | 40 | 50 | 43 | 72 | 31 | 49 | 43 | 73 | 44 | ..... | ..... | 76 | 40 | 70 | 38 | 64 | 28 |
| 13 | 68 | 43 | 74 | 45 | ..... | ..... | 68 | 44 | 51 | 45 | 71 | 43 | 51 | 45 | 74 | 45 | ..... | ..... | 67 | 41 | 71 | 39 | 66 | 28 |
| 14 | 68 | 47 | 67 | 43 | ..... | ..... | 65 | 42 | 60 | 47 | 72 | 34 | 68 | 41 | 66 | 46 | ..... | ..... | 66 | 41 | 70 | 42 | 69 | 33 |
| 15 | 67 | 46 | 65 | 46 | ..... | ..... | 58 | 42 | 62 | 45 | 72 | 33 | 60 | 49 | 70 | 50 | ..... | ..... | 68 | 52 | 70 | 43 | 69 | 30 |
| 16 | 70 | 49 | 61 | 45 | ..... | ..... | 64 | 48 | 59 | 45 | 75 | 41 | 61 | 47 | 70 | 50 | ..... | ..... | 65 | 47 | 73 | 46 | 72 | 31 |
| 17 | 70 | 53 | 68 | 44 | ..... | ..... | 70 | 49 | 62 | 42 | 74 | 48 | 64 | 49 | 61 | 51 | ..... | ..... | 76 | 48 | 68 | 48 | 69 | 39 |
| 18 | 65 | 46 | 60 | 49 | ..... | ..... | 64 | 52 | 59 | 49 | 72 | 41 | 64 | 47 | 64 | 51 | ..... | ..... | 65 | 47 | 70 | 49 | 69 | 39 |
| 19 | 68 | 48 | 55 | 43 | ..... | ..... | 58 | 47 | 58 | 47 | 66 | 46 | 61 | 48 | 60 | 47 | ..... | ..... | 61 | 47 | 67 | 49 | 68 | 48 |
| 20 | 62 | 49 | 61 | 39 | ..... | ..... | 63 | 46 | 60 | 43 | 66 | 45 | 62 | 46 | 62 | 48 | ..... | ..... | 62 | 44 | 66 | 48 | 65 | 45 |
| 21 | 63 | 44 | 61 | 49 | ..... | ..... | 60 | 42 | 60 | 43 | 65 | 38 | 62 | 42 | 69 | 45 | ..... | ..... | 63 | 41 | 69 | 43 | 58 | 41 |
| 22 | 52 | 42 | 54 | 38 | ..... | ..... | 62 | 44 | 54 | 44 | 62 | 45 | 47 | 46 | 56 | 42 | ..... | ..... | 52 | 41 | 66 | 46 | 57 | 43 |
| 23 | 49 | 39 | 44 | 33 | ..... | ..... | 48 | 35 | 50 | 34 | 54 | 36 | 47 | 38 | 51 | 38 | ..... | ..... | 50 | 37 | 53 | 32 | 52 | 40 |
| 24 | 51 | 38 | 49 | 33 | ..... | ..... | 50 | 35 | 50 | 31 | 58 | 33 | 53 | 35 | 54 | 38 | ..... | ..... | 54 | 36 | 56 | 30 | 53 | 26 |
| 25 | 55 | 36 | 50 | 29 | ..... | ..... | 52 | 30 | 56 | 37 | 58 | 25 | 56 | 31 | 61 | 36 | ..... | ..... | 58 | 32 | 58 | 27 | 59 | 26 |
| 26 | 59 | 35 | 51 | 37 | ..... | ..... | 58 | 32 | 55 | 40 | 63 | 29 | 57 | 38 | 58 | 40 | ..... | ..... | 55 | 36 | 58 | 31 | 62 | 33 |
| 27 | 61 | 44 | 58 | 41 | ..... | ..... | 54 | 38 | 54 | 40 | 67 | 34 | 59 | 38 | 64 | 40 | ..... | ..... | 64 | 36 | 66 | 36 | 58 | 34 |
| 28 | 53 | 37 | 55 | 41 | ..... | ..... | 62 | 41 | 53 | 40 | 63 | 35 | 54 | 44 | 55 | 40 | ..... | ..... | 57 | 37 | 63 | 44 | 58 | 32 |
| 29 | 61 | 36 | 58 | 31 | ..... | ..... | 58 | 36 | 55 | 32 | 66 | 28 | 59 | 32 | 63 | 37 | ..... | ..... | 70 | 31 | 63 | 31 | 60 | 28 |
| 30 | 62 | 46 | 68 | 38 | ..... | ..... | 65 | 35 | 58 | 34 | 69 | 36 | 57 | 37 | 60 | 40 | ..... | ..... | 66 | 34 | 63 | 33 | 71 | 20 |
| 31 | 63 | 46 | 65 | 39 | ..... | ..... | 60 | 39 | 55 | 39 | 68 | 41 | 59 | 41 | 63 | 42 | ..... | ..... | 66 | 42 | 65 | 44 | 67 | 40 |
| Means | 60.7 | 43.0 | 60.6 | 39.7 | ..... | ..... | 59.4 | 41.1 | 56.6 | 41.5 | 65.2 | 36.6 | 57.6 | 42.4 | 60.8 | 43.6 | ..... | ..... | 62.9 | 40.5 | 63.4 | 39.6 | 61.0 | 32.8 |

# PAPERS ON CLIMATOLOGY IN RELATION TO AGRICULTURE, TRANSPORTATION, WATER RESOURCES, ETC.

## THE COCONINO FOREST EXPERIMENT STATION NEAR FLAGSTAFF, ARIZ. G. A. Pearson, Director.

Summary from report prepared by A. E. HACKETT, Assistant Observer.

The largest pine forest on the North American Continent extends from north-central Arizona in a southeasterly direction into southwestern New Mexico, a distance of approximately 250 miles. The forest occupies an extensive plateau, known as the Colorado Plateau, which has a general elevation of from 6,000 to 8,000 feet above sea level, with numerous peaks the highest of which reaches an altitude of about 13,000 feet. Western yellow pine occupies the level mesas and lower slopes of the plateau from approximately 6,500 to 8,500 feet elevation, forming a belt 10 to 30 miles in width.

The timber of this region naturally grows in very open stands, the characteristic mode of occurrence being in small groups 80 to 300 feet in diameter, separated by openings of about the same size, but frequently there are much larger openings, some of them covering several hundred acres. These larger openings are commonly known as "parks". A number of theories have been advanced in explanation of the origin of the parks of this region. One is, that they were once timbered but have subsequently been denuded by fires. A more plausible theory in the case of most parks is that they are naturally treeless owing to the presence of conditions unfavorable to tree growth. With a view to determining these conditions, and also the influence of forest cover on reproduction, the Coconino Forest Experiment station, with the cooperation of the Weather Bureau, began, in 1908, a systematic study of the meteorological conditions obtaining in one of the larger parks, locally known as Fort Valley, and in the adjoining timber. This park lies about 8 miles northwest of Flagstaff, Ariz., on the Coconino National Forest, and is about 1½ miles in width by 2½ miles long, the major diameter extending northeast and southwest. The topography is practically level, and the average elevation approximately 7,300 feet above sea level. The soil is mainly a fine alluvial loam underlain at depths ranging from 1 to 2 feet by deposits of volcanic cinders. About one-forth of the land is under cultivation and the remainder is covered by a fairly dense growth of a low tufted grass. A moderately heavy forest of western yellow pine, opened in places by light cuttings, surrounds the park. The timber almost invariably occurs at a slightly higher elevation than the adjacent park land. In places the timbered area rises from the edge of the park in a very gentle slope, while in other places there is a rather abrupt rise of 25 to 100 feet. Occasionally narrow, slightly elevated tongues of timbered land extend out into the opening a distance of ⅛ to ¼ mile, and in two instances small isolated patches of trees occur on slight eminences well out in the park. The park and the surrounding timbered areas present the appearance of a partial basin. From 3 to 3½ miles north and east of the park begin the steep slopes of the San Francisco Mountains which, in a horizontal distance of from 1.9 to 2.5 miles rise from an elevation of 8,500 feet to an elevation of 12,340 feet, or approximately 5,000 feet above the level of the park. Minor peaks in the vicinity are Wing Mountain, about 2 miles northwest, and A–1 Mountain, at the southern edge of the park, with elevations of 8,500 and 8,300 feet, respectively. On the south and west sides the steep timbered slopes rise 200 or 300 feet above the park to a level mesa which here forms the rim of the basin.

The climate of this region which is fairly typical of the higher altitudes of Arizona and New Mexico, is characterized by great daily ranges of temperature and very marked seasonal variations in precipitation, atmospheric moisture, and wind movement. Owing to the rapid radiation incident to high altitudes the change of temperature from day to night is very great, occasionally amounting to 80°. The precipitation occurs mainly during the summer and winter months, the former season extending from about July 15 to September 10, and the latter from December to March, inclusive. During the summer rainy season, showers are very frequent and the relative humidity is usually high. During the winter months the precipitation is mainly in the form of snow, which frequently accumulates to a depth of 3 or 4 feet. As a rule but little precipitation occurs from April 1 to July1, and the wind movement and evaporation during these months are extremely high. This period is extremely trying on vegetation, especially forest seedlings which have not become well established. A similar, though unusually much less severe, period of drought extends from about September 10 to December 1.

Three meteorological stations were established on the western side of the Fort Valley park at which daily readings of temperature, precipitation, relative humidity, and wind movement have been made since January 1, 1909. Evaporation readings were also taken at all three stations from July 1 to October 31, 1909.

Station No. 1 is located in the edge of a projecting point of timber on the west side of the park, at an elevation of 7,261 feet.

The station is equipped with maximum and minimum thermometers, psychrometer, anemometer, wind vane, recording rain gage, and one evaporating pan. This station is protected by timber on the west and northwest, but receives the full force of the wind from other directions, especially the southwest, which is the prevailing wind direction in this region.

Station No. 2 is situated in the park 843 feet southeast of station No. 1, at an elevation of 7,247 feet. The instrumental equipment consists of maximum and minimum thermometers, psychrometer, anemometer, rain gage, and evaporation pan.

Station No. 3 is in a virgin stand of western yellow pine, 1,453 feet west from the edge of the park at an elevation of 7,348 feet. The equipment is the same as at station No. 2. At each of these stations the thermometers are exposed in louvered shelters, 4 feet above ground, and the anemometers are placed 8 feet above ground. The instruments were placed near the ground as it was desired to determine the conditions to which seedling growth is exposed. At the forest station the soil is a reddish, loamy clay, mixed with large volcanic boulders and the ground cover consists of a sparse growth of grasses and other herbs. Practically no leaf litter is found beyond 30 feet from the trees. The instruments are set in an opening 164 feet in diameter and are 66 feet from the nearest trees.

All of the instrument stations are situated slightly above the immediate surrounding country in order to secure good atmospheric drainage. The instruments have been read daily between 4 and 5 p. m. To determine whether or not the temperature conditions observed at stations 1, 2, and 3 were typical of the whole park and the adjacent timber on both sides, three temporary stations were established at which records were taken from January 25 to February 20, 1910. One of the stations was near the middle of the park, one-half mile east of station No. 2, at an elevation of 7,246 feet; another was in the park, 725 feet from the timber on the eastern side, elevation 7,264 feet, and the third was in a virgin stand of yellow pine 1,617 feet from the eastern edge of the park, at an elevation of 7,330 feet. Temperature records were obtained at these stations by means of thermographs checked by maximum and minimum thermometers, and indicated practically the same relation between forest and park temperatures as was found at the stations on the western side, except that on the eastern side the daily maximum temperatures were slightly higher in the forest than in the park, while on the western side the reverse was the rule. At these temporary

stations the thermometers and thermographs were exposed in improvised shelters open on the north side.

Table 1 presents a summary, by months, of the temperature records at stations Nos. 2 and 3 for the year 1909.

TABLE 1.—*Summary of temperature observations at Coconino Forest Experiment Station.*

| Month. | Mean maximum. | | Mean minimum. | | Monthly mean. | | Highest. | | Lowest. | | Mean daily range. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Station | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 |
| | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F | °F |
| January | 43.5 | 43.5 | 14.7 | 20.8 | 29.1 | 32.2 | 56 | 52 | −14 | 4 | 28.8 | 22.7 |
| February | 42.2 | 42.3 | 6.6 | 13.8 | 24.4 | 28.0 | 53 | 50 | −20 | − 2 | 35.6 | 28.5 |
| March | 42.0 | 42.1 | 10.8 | 18.7 | 26.4 | 30.4 | 51 | 51 | −19 | − 4 | 31.2 | 23.4 |
| April | 56.3 | 56.1 | 21.0 | 24.8 | 38.6 | 40.4 | 69 | 65 | 9 | 14 | 35.3 | 31.3 |
| May | 64.7 | 62.7 | 26.2 | 29.4 | 45.4 | 46.0 | 81 | 70 | 17 | 21 | 38.5 | 33.3 |
| June | 77.1 | 77.0 | 33.3 | 40.5 | 55.2 | 58.8 | 87 | 90 | 25 | 32 | 43.8 | 36.5 |
| July | 78.2 | 78.0 | 44.2 | 49.4 | 61.2 | 63.7 | 89 | 90 | 32 | 39 | 34.0 | 28.6 |
| August | 72.6 | 72.4 | 48.0 | 50.6 | 60.3 | 61.5 | 79 | 79 | 42 | 47 | 24.6 | 21.8 |
| September | 69.4 | 68.5 | 36.6 | 41.5 | 53.0 | 55.0 | 77 | 75 | 25 | 31 | 32.8 | 27.0 |
| October | 65.9 | 64.4 | 19.7 | 29.1 | 42.8 | 46.8 | 75 | 72 | 5 | 13 | 46.2 | 35.3 |
| November | 53.7 | 53.2 | 11.2 | 20.8 | 32.4 | 37 0 | 70 | 67 | −20 | − 1 | 42.5 | 32.4 |
| December | 38.7 | 38.4 | −1.0 | 9.1 | 18.8 | 22.8 | 58 | 52 | −26 | −12 | 39.7 | 27.3 |
| Year | 58.7 | 58.9 | 22.6 | 29.0 | 40.6 | 43.6 | .... | .... | .... | .... | 36.1 | 29.0 |

Station No. 2 is in the open park. Station No. 3 is in the virgin forest.

identical. The difference between the records in the forest and in the park in clear weather are less pronounced in summer than in winter.

In seeking to account for the great difference between the minimum temperatures of the forest and the park, the first factor to suggest itself is the difference in radiation. The change of temperature from day to night is usually very great at this altitude, owing to excessive radiation, and it is possible that the tree crowns may exert a sufficient retarding influence upon the loss of heat to noticeably effect the tempreature of the forest. This opinion is supported by the fact that in cloudy weather when radiation is reduced to a minimum the lowest temperatures recorded in the timber are about the same as those recorded in the park. But, while it is very probable that the tree crowns do retard radiation to a marked degree, when we consider that in a western pine forest the trees actually cover not more than one-half of the total area, and that in this investigation the thermometers are exposed in a small opening instead of directly under the trees, it seems doubtful whether the effect of the crowns would be sufficient to account for the great differences in temperature that have been observed.

The fact that the park is slightly below the surrounding timbered areas suggests the idea that the cold air of the vicinity set-

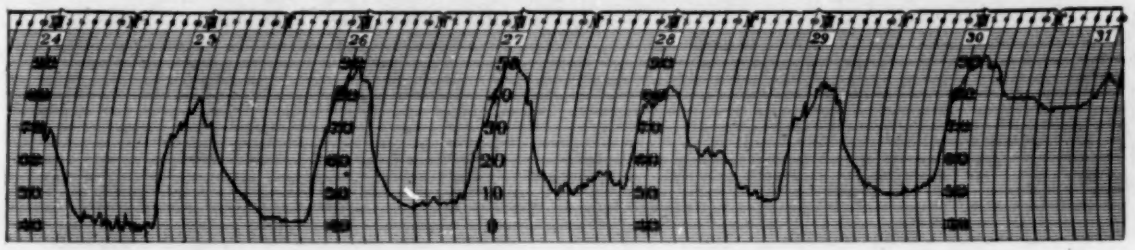


FIG. 1.—Thermogram at Station No. 3 (Forest), December 24–31, 1909.

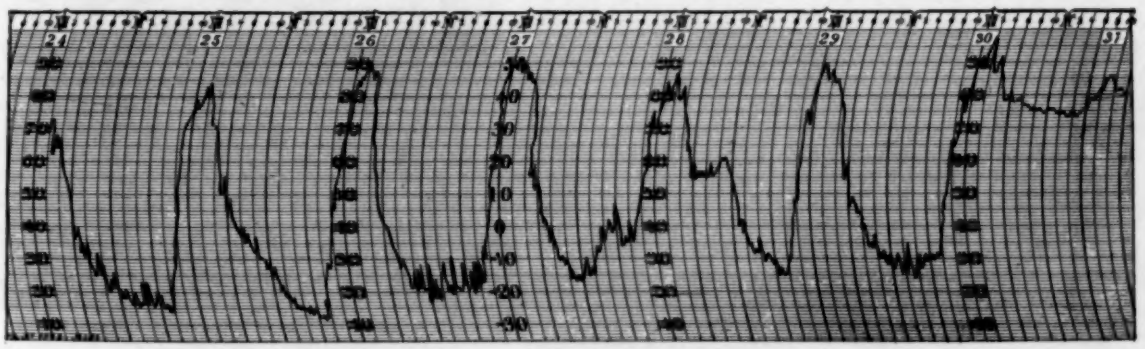


FIG. 2.—Thermogram at Station No. 2 (Park), December 24–31, 1909.

A comparison of the monthly means of temperature shows a slightly lower mean maximum, but a much higher mean minimum, in the forest then in the park, which has the effect of increasing the monthly mean and increasing the range in the forest. This relation holds throughout the year but, with the exception of the month of June, it was decidedly more marked during the winter than during the summer. The most striking difference is in the extreme minima, which are commonly from 10° to 16° higher in the forest than in the park.

The relation between the forest and park temperatures in clear weather is strikingly shown by the thermograph curves in figures 1 and 2. The curves for the forest (fig. 1) show, in addition to a much smaller daily range, less pronounced minor fluctuations and a more gradual change from one extreme to the other. In cloudy weather the curves for forest and park are practically

tles into the park, thereby reducing the temperature near the surface of the ground in the park much below that of the forest. But since the immediately surrounding forest, where the stations are located, is considerably below the country back of it and only a few feet above the park, it seems that any cold air drainage from the surrounding mountains and mesas should make itself felt at the forest as well as at the park station. Another explanation of these conditions lies in the possible resistance offered by the forest to the atmospheric drainage from the San Francisco Mountains. The cold air of the upper mountain slopes would naturally settle into the valley below, thereby causing a general movement away from the mountains. This cold air in passing over a timbered area might be prevented to a certain extent by the tree crowns from mixing freely with the warmer air below, or underrunning it, being diverted over the tree tops

into the open park. Automatic records of wind direction at station No. 1 indicate that there is a movement of air from the San Francisco Mountains toward the valley at night.

The great differences in temperature observed are probably due to a combination of the two causes mentioned, the drainage of cold air from the steep slopes of the mountains undoubtedly playing an important part in the reduction of the temperature in the park. However, the same conditions will probably be found to exist in practically all of the parks in the forest since they are nearly all lower than the country immediately surrounding them.

The records of wind movement at stations Nos. 2 and 3 show that the average wind velocity is about twice as great in the park as in the forest.

The mean daily evaporation in the forest for the 4 months, from July 1 to October 31, was from 65 to 77 per cent of that in the park. The decreased evaporation in the forest is undoubtedly due to the decreased wind movement.

The protective influence of the forest on vegetation is strikingly illustrated by two small plantings of western yellow pine at meteorological stations Nos. 1 and 3. Fifty 2-year-old plants were set at each of these stations on April 22, 1909. On May 21, 90 per cent of the plants at station No. 3 were alive, while at station No. 1 only 11 per cent were alive. Soil samples taken on the same date showed a moisture content of 17 per cent at station No. 3, and 17.5 per cent at station No. 1, indicating that at both places the available soil moisture was ample to keep the plants alive. Nevertheless the appearance of the dead seedlings pointed to drought as the cause of their death. No records of evaporation are available for this period, but the wind movement at station No. 1 was practically twice as great as at station No. 3; there was but little precipitation, and the sky was generally clear. The inference is, therefore, that the plants at the edge of the forest, owing to the excessive evaporation, dried up in spite of the presence of abundant moisture at the roots, and that the relatively small loss in the forest was due to the protection against evaporation.

On large portions of the western yellow pine forests of this region the most serious silvicultural problem which the forester has to meet is that of regeneration, and the practical value of a forest cover in moderating two of the extreme physical conditions most unfavorable to forest regeneration, namely, excessive evaporation and, to a certain extent, frost, has been demonstrated by the observations at Fort Valley.

## THE PETRIFIED FORESTS OF ARIZONA.

By Prof. F. H. BIGELOW.

In view of the interest in the subject of forests and climatology, it may be proper to recall a few of the well-known facts regarding the petrified forest in northern Arizona. A high escarpment of land, about 5,700 feet above sea level, stretches from Utah into northern Arizona. The Colorado River has cut its gorge across this escarpment, and to the southeast of the Colorado extends the plain of the Little Colorado on the top of this plateau the surrounding region being generally known as the Painted Desert. The Atchison, Topeka and Santa Fé Railroad crosses the escarpment to the south of the Grand Canyon, by way of Flagstaff, Holbrook, and Adamana. The station Adamana lies between the Rio Puerco and the Rio Zuni. About 10 or 15 miles south of the railroad station Adamana lies the famous petrified forest. It consists, as shown in the accompanying photographs (figs. 1–6), of massive tree trunks, generally coniferous, some from 100 to 200 feet in length and as much as 4 feet in diameter. Others are broken up into large blocks and scattered around quite irregularly. The entire country has been heavily eroded, so that the original horizontal plain, in which these trees grew, remains in only a few isolated places. However, the roots and some of the tree trunks, imbedded in the original soil, seem to have been found, the inference being that there has been no important transfer of the logs horizontally, such as would occur if they were floated in the water of the ancient rivers or seas, or such as would result from their rolling down the embankments into one place during the erosion of the region into high and low levels. The climatological history of this ancient forest is, of course, unknown, but it is inferred by Prof. F. Ward, who examined the region, that the trees must have grown in the Mesozoic or Triassic ages, so that they are many millions of years old. These tree trunks have now been transformed into agate, jasper, and chalcedony,

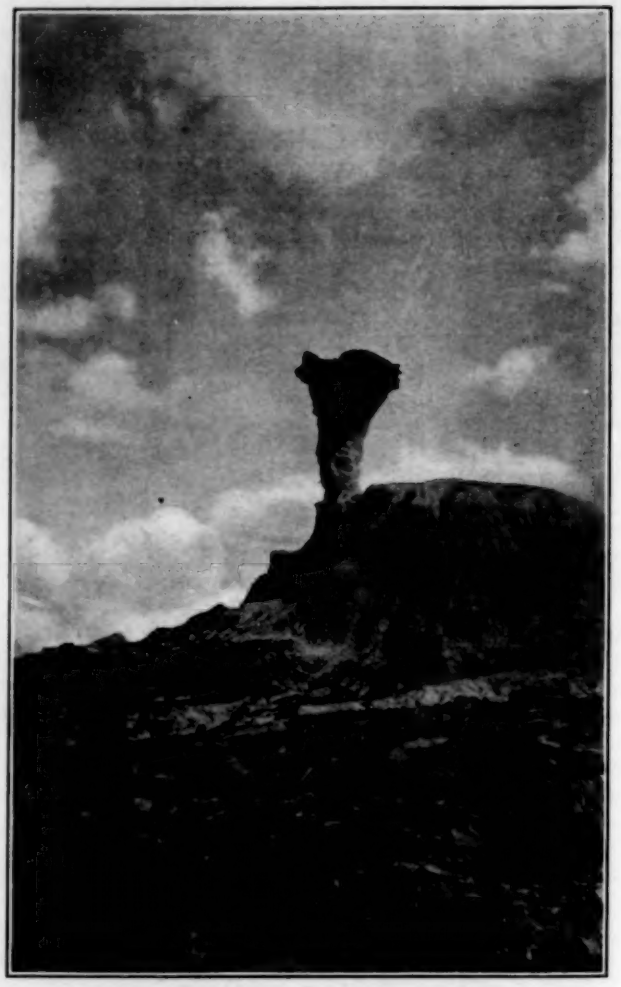

FIG. 1.—Eagle's Nest Rock. The pinnacle shows the height from which the entire region has been eroded by recent water action.

and their colors are very beautiful. Apparently they were submerged in the ancient waters, covered with sand, which on hardening embraced the logs and gradually turned them into stone by the absorption of silicates in solution. The region was then elevated probably from some low elevation as sea level to the height of nearly 6,000 feet, and the wearing away of the country through erosion has left them in their present condition.

The history of the Great Salt Lake, which is a remnant of the greater lake, Lake Bonneville, once about as large as Lake Michigan, this being of recent geological age, indicates that the entire region of the western portion of the United States was altogether different in its formation from what we now know it. The Rocky Mountains on the eastern side of the plateau apparently bore something of the same relation to the prevailing westerly winds that the Sierra Nevada Mountains now do to the Pacific Ocean and its winds, the Sierra Nevada Mountains

FIG. 2.—Blocks of tree trunks. The trees are all conifers.

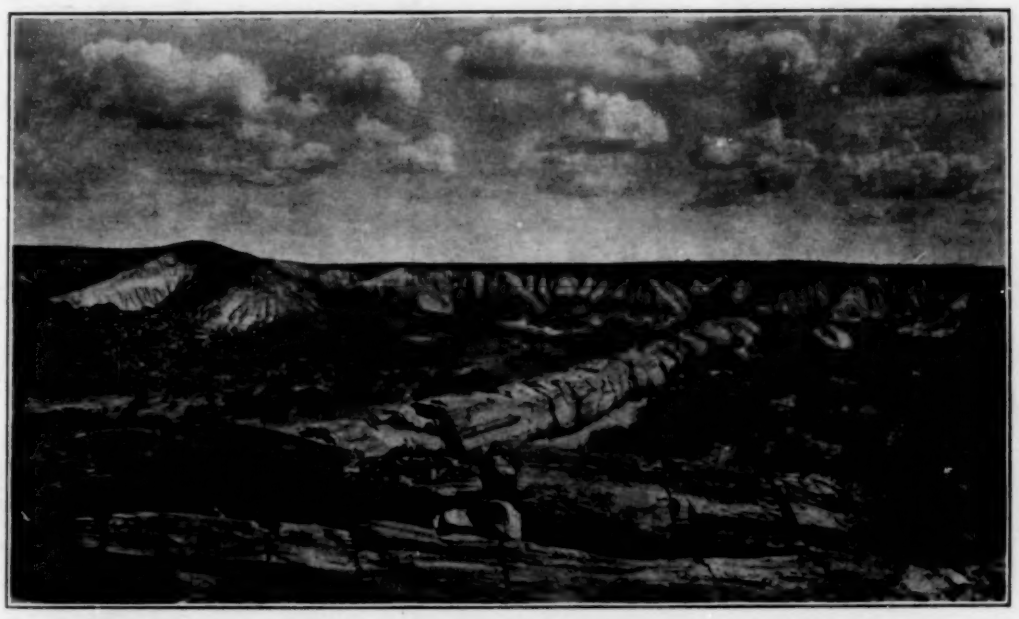

FIG. 3.—These tree trunks are about 150 feet in length and 2½ feet in diameter.

FIG. 4.—This tree trunk is several million years old and has become petrified by the deposit of water salts in the wood.

FIG. 5.—Dewey's Cannon, overlooking an eroded valley. The imperfections in the trunk and the bark are preserved to the minutest detail.

having been formed since the eastern or Rocky Mountain Range. As the sequoias flourish on the western slope of the Sierra Nevada so apparently the western slope of the Rocky Mountains were once covered with trees of a large growth. It can easily be inferred that the forestation always changes with the climatic variations, which are due to the general topography of the mountains as referred to the prevailing winds bearing moisture content to be precipitated on the mountain slopes. It is probable that the forest regions now known to exist will gradually change their habitat if terrestrial climates undergo any important modification, due to the change in the land masses, and to the corresponding deflection of the great vapor bearing winds, which are in turn dependent upon the general circulation of the atmosphere.

FIG. 6.—This tree trunk forms a bridge over the ravine which has been washed away from the sandstone.

## WEATHER, FORECASTS, AND WARNINGS FOR THE MONTH.

By Prof. E. B. GARRIOTT, in charge of Forecast Division.

Over a great portion of the United States the month was the warmest and driest March shown by Weather Bureau records. During the first decade of the month mean temperatures ranged from 5° to 15° above the normal. During the second decade temperatures continued high from the Great Lakes and central valleys to the Pacific coast and in the upper Missouri Valley, the means were 15° to 23° above the normal. Excessively high temperatures continued during the balance of the month over central and northern districts where the departures above the normal for that period were 15° to 25°, and from the 21st to 29th the highest day temperatures on record for March were reported from the Missouri Valley, over the upper Mississippi Valley, Lake region, Ohio Valley, and New England. Over the Plateau and Rocky Mountain districts cooler weather prevailed at intervals during the latter portion of the month, and by the close of the month the cooler weather had extended over interior portions of the country. For the month, as a whole, the mean temperature was above the normal, except over the southern extremity of the Florida Peninsula and over the Missouri and upper Mississippi valleys, the means were 15° to 20° above the normal.

The most marked deficiency in precipitation occurred from the lower Ohio Valley, over the middle Gulf, and interior of the South Atlantis States, where the rainfall for the month was 4 inches or more less than the March average. From the Mississippi Valley to the Atlantic coast and on the north Pacific coast the deficiency was generally 2 or more inches. Excesses in precipitation occurred only at points in southeastern Florida, adjoining portions of the western Dakotas, and eastern Montana and eastern Wyoming, extreme western Montana and northern Idaho, and on the middle California coast and the interior of Arizona, where the departures were small. The month opened with rain in the east Gulf States and along the Atlantic and north Pacific coasts, and on the 7th and 8th rain and snow fell from the Lake region over New England. From the 9th to 20th fair weather was general, except from central Texas over the Gulf and Atlantic coast States where showers occurred from the 9th to 13th. During the third decade of the month rain fell on the Pacific coast on the 22d and 23d and from the 27th to the close of the month rains that set in on the Pacific coast overspread the Rocky Mountain districts, central valleys, and a great portion of Texas. Over a greater portion of the interior of the country the precipitation for the month was less than 1 inch and the total amount was less than 2 inches, except over a portion of Florida, locally in Texas and Arizona, and along the Gulf, Atlantic, and Pacific coasts. Snowfalls were light, except in the mountain districts of Colorado, southeastern Wyoming, northern New Mexico, and northern Arizona.

Floods, originating from melting snow supplemented by warm rains during the closing week of February, occurred during the opening days of March in the Ohio Valley, lower Lake region, Pennsylvania, and New York. The accumulation of snow in those districts had been heavy, ground surfaces were frozen or saturated by previous rains or melting snow, and a rapid run-off of water and a consequent rapid rise of streams resulted. Information regarding the scope of the floods will be found under the heading Rivers and Floods.

The following special forecast was issued March 6, 1910:

During the present week a marked change from the abnormally warm and stagnated conditions that prevailed during the past week will be experienced. A change to colder weather that appeared over the northwest to-day (Sunday) will overspread the central valleys and Lake region Monday and reach the Atlantic seaboard Monday night and Tuesday. A disturbance from the Pacific will cross the country during the latter half of the week. Another disturbance that promises to produce widespread and general rains will advance from the Pacific to the Atlantic coasts over a more southern course, and reach the Atlantic States about the middle of the month.

The change to colder weather occurred as indicated and the temperature of the week averaged near the normal over the country generally. Thursday morning a disturbance from the north Pacific was central north of Montana and another disturbance that had advanced from the south Pacific coast had assumed form over Texas. Rain had set in over the lower Ohio, lower Mississippi, and lower Missouri valleys and thunderstorms were reported in the Gulf States, Arkansas, and Tennessee. During Thursday the area of precipitation extended to the middle and south Atlantic coasts and in the Middle Atlantic States, the precipitation was in the form of snow. By Friday morning the northwestern disturbance had advanced to Wisconsin and the southwestern disturbance had reached Georgia, snow had fallen over Wisconsin, Minnesota, and Upper Michigan and frost had formed as far south as northern Texas and northwestern Louisiana.

During Saturday and Sunday the southern storm moved norteastward off the middle Atlantic coast and by Monday morning was joined by a disturbance of marked intensity that had advanced during the preceding 2 days from the British Northwest over the Lake region. The disturbances were attended by rain in Southern and Middle-Eastern States, by snow flurries from the Lake region, over the upper Ohio Valley, and North Atlantic States, and by high winds along the middle Atlantic and New England coasts.

On Sunday, March 13, the following special forecast was issued:

Compared with the past week the present week will be comparatively warm generally over the United States. A period of cooler weather will however set in over the extreme west about the middle of the week and advance thence to the Atlantic coast by the beginning of next week.

A disturbance will advance from the Pacific and reach the Rocky Mountain districts about the middle of the week, develop strength over the Plains States and central valleys during Friday and Saturday, respectively, and reach the Atlantic seaboard Saturday night or Sunday. The advance of this disturbance will be preceded by temperature rising above the average for the season, attended by precipitation that in the northern tier of States may be in the form of snow, and followed by a sharp fall in temperature.

Temperature continued high during the week over the western half of the United States. In eastern districts the week opened with low temperature, and frost, for which timely warnings were issued, occurred in the Gulf and South Atlantic States and northern Florida. During the middle and closing days of the week temperature rose above the normal generally over the eastern half of the country. Barometric areas were of slight intensity and a disturbance that advanced from the Rockies to the Atlantic coast during the latter half of the week was attended by rains in areas in the central valleys and the Southwest and on Saturday and Sunday by showers in the Lake region, Ohio Valley, Tennessee, and the Middle Atlantic and New England States. The disturbance was followed by a sharp fall in temperature from the middle and upper Mississippi Valley over the Ohio Valley, Lake region, and the Northeastern States.

The following special bulletin was issued March 20:

Spring, that according to the calendar begins March 21, will open with temperature above the average for the season generally throughout the United States.

The present week promises to average warmer than usual, except from the southern Rockies over the southern Plateau and the southern half of California, where temperatures will be somewhat below normal, and from the upper Mississippi Valley over the Great Lakes, New York, and New England, where the beginning and close of the week will show temperatures near or below the average for the season.

On the north Pacific coast and thence over the northern Plateau and northern Rocky Mountain districts rains will be unusually frequent and in the northwestern mountain districts the precipitation will be partly in the form of snow.

The week will open with fair weather from the Rocky Mountains to the Atlantic coast, except in the Northeastern States, where showers will precede

clearing weather. A barometric disturbance that will advance over the Rockies and the Plains States Monday and Tuesday, and cross the central valleys and Lake region Wednesday and Thursday, will reach the Atlantic States Thursday night or Friday attended by precipitation that will be largely in the form of showers.

The week following the vernal equinox averaged unusually warm in the United States, with temperatures 20° to 30° above the normal about the middle of the week from the Rockies over the central valleys and Lake region. The week opened with temperature somewhat below the average for the season in the East and closed with temperature near the normal over the greater portion of the country. A barometric disturbance crossed the country as scheduled, but was practically unattended by rain east of the Rockies. On the Pacific coast precipitation occurred on several days and in northern Rocky Mountain districts the precipitation was partly in the form of snow. Over western Europe and adjacent waters the weather of the week was fine and along and south of the transatlantic steamer routes light to moderate winds and smooth seas prevailed. Over middle and southern latitudes of the Pacific and adjacent Asiatic coasts no severe storms were reported. In eastern Europe and the interior Siberian area marked barometric changes produced unsettled and stormy weather.

About the middle of the month the so-called permanent winter high area over Siberia began to show signs of distintegration, and pressures increased over the Atlantic and Pacific areas. This period of transition from winter to spring distribution of atmospheric pressure continued until March 25, when winter pressure was again resumed over the Siberian area and pressure began to decrease over western Europe and the Atlantic. Based on a consideration of barometric conditions over the Northern Hemisphere the following bulletin was issued March 27:

During the present week temperature in the United States will average mild for the season. A disturbance that now occupies the California coast will move eastward and reach the Atlantic coast about Friday. Another disturbance is indicated that will cross the country from about March 31 April 1. The disturbances should be attended by rains of increasing area and will be followed by changes to colder weather. Atmospheric movements will be more active along the transatlantic steamer routes, and a period of rains is indicated for the British Isles and northwestern Europe.

The disturbance that occupied California March 27 advanced over the Rocky Mountains and Plains States Tuesday with increasing intensity attended by rain and snow in the Rockies and Plateau regions and by showers and thunderstorms over the Great Plains. By Wednesday morning the center of disturbance had reached the upper Mississippi Valley and general rains had fallen in the Mississippi and Missouri Valleys and the Southwest and snow in the Rocky Mountains and the Northwest. Following the passage of the low area freezing temperature was experienced in the northern Plains States and the Rocky Mountain and Plateau districts. By Thursday morning the low area had advanced over eastern Ontario with diminished strength, scattered rains had occurred from the Lake region, over the Mississippi Valley, and the Southwest and in Texas the rainfalls were rather heavy. The cooler weather had extended over the central valleys and Lake region and the line of freezing temperature had extended southward to the Texas Panhandle. During the next 24 hours light rains occurred from the Ohio Valley and Lake region eastward and showers continued in Texas. Pressure decreased on the Pacific coast during the 31st and the morning of April 1 depressions covered the northern portion of the State of Washington, southern California, and adjacent portions of southern Nevada.

*Average temperatures and departures from the normal.*

| Districts. | Number of stations. | Average temperatures for the current month. | Departures for the current month. | Accumulated departures since January 1. | Average departures since January 1. |
|---|---|---|---|---|---|
| | | ° | ° | ° | ° |
| New England | 12 | 38.8 | + 6.0 | + 9.8 | + 3.3 |
| Middle Atlantic | 15 | 47.8 | + 8.0 | + 8.9 | + 3.0 |
| South Atlantic | 10 | 59.2 | + 5.4 | + 4.2 | + 1.4 |
| Florida Peninsula* | 8 | 66.4 | + 0.1 | 0.0 | 0.0 |
| East Gulf | 11 | 63.3 | + 6.0 | + 4.4 | + 1.5 |
| West Gulf | 10 | 64.4 | + 7.1 | + 6.6 | + 2.2 |
| Ohio Valley and Tennessee | 13 | 54.6 | +10.0 | + 7.6 | + 2.5 |
| Lower Lakes | 10 | 42.0 | + 9.7 | + 8.7 | + 2.9 |
| Upper Lakes | 12 | 39.8 | +12.6 | +12.5 | + 4.2 |
| North Dakota* | 9 | 40.3 | +19.5 | +19.4 | + 6.5 |
| Upper Mississippi Valley | 14 | 50.3 | +14.3 | +12.3 | + 4.1 |
| Missouri Valley | 12 | 53.3 | +17.2 | +17.2 | + 5.7 |
| Northern slope | 9 | 44.9 | +14.1 | +11.7 | + 3.9 |
| Middle slope | 6 | 55.3 | +12.8 | +14.3 | + 4.8 |
| Southern slope* | 8 | 60.2 | + 7.8 | + 8.5 | + 2.8 |
| Southern Plateau* | 10 | 56.1 | + 4.9 | + 4.9 | + 1.6 |
| Middle Plateau* | 11 | 46.0 | + 7.6 | + 0.9 | + 0.3 |
| Northern Plateau* | 9 | 46.2 | + 7.9 | + 2.5 | + 0.8 |
| North Pacific | 7 | 47.5 | + 3.3 | + 0.7 | + 0.2 |
| Middle Pacific | 5 | 55.0 | + 2.4 | − 2.3 | − 0.8 |
| South Pacific | 4 | 58.1 | + 3.0 | + 2.0 | + 0.7 |

*Average precipitation and departures from the normal.*

| Districts. | Number of stations. | Average. | | Departure. | |
|---|---|---|---|---|---|
| | | Current month. | Percentage of normal. | Current month. | Accumulated since Jan. 1. |
| | | Inches. | | Inches. | Inches. |
| New England | 11 | 1.45 | 38 | − 2.4 | − 0.4 |
| Middle Atlantic | 15 | 0.98 | 27 | − 2.7 | − 2.4 |
| South Atlantic | 11 | 1.26 | 29 | − 3.1 | − 4.8 |
| Florida Peninsula* | 8 | 2.22 | 76 | − 0.7 | − 2.6 |
| East Gulf | 11 | 1.47 | 25 | − 4.4 | − 5.6 |
| West Gulf | 10 | 1.56 | 49 | − 1.6 | − 3.3 |
| Ohio Valley and Tennessee | 13 | 0.47 | 11 | − 4.0 | − 1.5 |
| Lower Lakes | 10 | 0.60 | 23 | − 2.0 | + 0.2 |
| Upper Lakes | 12 | 0.28 | 13 | − 1.9 | − 2.5 |
| North Dakota* | 9 | 0.96 | 91 | − 0.1 | − 0.6 |
| Upper Mississippi Valley | 15 | 0.30 | 12 | − 2.1 | − 2.6 |
| Missouri Valley | 12 | 0.48 | 26 | − 1.4 | − 1.4 |
| Northern slope | 9 | 0.93 | 82 | − 0.2 | − 0.1 |
| Middle slope | 6 | 0.28 | 19 | − 1.2 | − 1.7 |
| Southern slope* | 8 | 0.62 | 51 | − 0.6 | − 2.1 |
| Southern Plateau* | 10 | 0.60 | 86 | − 0.1 | − 1.2 |
| Middle Plateau* | 11 | 0.50 | 38 | − 0.8 | − 2.2 |
| Northern Plateau* | 9 | 0.86 | 59 | − 0.6 | − 1.0 |
| North Pacific | 7 | 2.82 | 57 | − 2.1 | − 1.3 |
| Middle Pacific | 7 | 3.12 | 84 | − 0.6 | − 3.0 |
| South Pacific | 4 | 2.01 | 77 | − 0.6 | − 3.5 |

*Regular Weather Bureau and selected cooperative stations.

*Maximum wind velocities.*

| Stations. | Date. | Velocity. | Direction. | Stations. | Date. | Velocity. | Direction. |
|---|---|---|---|---|---|---|---|
| Amarillo, Tex. | 26 | 54 | s. | Mount Weather, Va. | 15 | 54 | nw. |
| Do | 28 | 50 | s. | North Head, Wash. | 1 | 56 | s. |
| Bismarck, N. Dak. | 6 | 58 | nw. | Do. | 5 | 50 | w. |
| Do. | 23 | 60 | w. | Oklahoma, Okla. | 6 | 52 | n. |
| Burlington, Vt. | 19 | 50 | sw. | Do. | 28 | 50 | s. |
| Do. | 28 | 66 | s. | Pierre, S. Dak. | 27 | 60 | w. |
| Do. | 31 | 50 | s. | Do. | 29 | 55 | nw. |
| Cheyenne, Wyo. | 1 | 56 | w. | Point Reyes Light, Cal. | 4 | 54 | nw. |
| Chicago, Ill. | 6 | 50 | w. | Do. | 5 | 54 | nw. |
| Denver, Colo. | 29 | 50 | n. | Do. | 7 | 58 | nw. |
| Detroit, Mich. | 6 | 50 | w. | Do. | 8 | 52 | nw. |
| Devils Lake, N. Dak. | 6 | 60 | nw. | Do. | 22 | 58 | nw. |
| Duluth, Minn. | 21 | 56 | sw. | Do. | 23 | 61 | nw. |
| Do. | 24 | 50 | sw. | Do. | 26 | 64 | s. |
| Do. | 27 | 54 | sw. | Do. | 27 | 50 | nw. |
| El Paso, Tex. | 28 | 57 | w. | Do. | 28 | 50 | nw. |
| Havre, Mont. | 5 | 60 | w. | Rapid City, S. Dak. | 23 | 66 | sw. |
| Minneapolis, Minn. | 6 | 54 | nw. | St. Paul, Minn. | 6 | 52 | w. |
| Mount Tamalpais, Cal. | 5 | 61 | nw. | Sheridan, Wyo. | 23 | 50 | nw. |
| Do. | 7 | 52 | nw. | Sioux City, Iowa | 6 | 52 | nw. |
| Do. | 21 | 50 | se. | Southeast Farallon, Cal. | 26 | 56 | s. |
| Do. | 22 | 66 | nw. | Tatoosh Island, Wash. | 1 | 51 | s. |
| Do. | 23 | 52 | nw. | Do. | 4 | 52 | sw. |
| Mount Weather, Va. | 7 | 60 | nw. | Do. | 5 | 50 | sw. |
| Do. | 14 | 57 | nw. | Williston, N. Dak. | 5 | 58 | w. |

*Average relative humidity and departures from the normal.*

| Districts. | Average. | Departure from the normal. | Districts. | Average. | Departure from the normal. |
|---|---|---|---|---|---|
| New England | 72 | − 3 | Missouri Valley | 57 | −15 |
| Middle Atlantic | 69 | − 3 | Northern slope | 57 | −10 |
| South Atlantic | 73 | − 2 | Middle slope | 47 | −13 |
| Florida Peninsula | 78 | + 1 | Southern slope | 48 | − 7 |
| East Gulf | 64 | − 9 | Southern Plateau | 43 | + 7 |
| West Gulf | 66 | − 6 | Middle Plateau | 52 | − 4 |
| Ohio Valley and Tennessee | 61 | −10 | Northern Plateau | 61 | − 5 |
| Lower Lakes | 68 | − 8 | North Pacific | 82 | + 7 |
| Upper Lakes | 71 | − 8 | Middle Pacific | 77 | + 3 |
| North Dakota | 73 | − 5 | South Pacific | 73 | + 2 |
| Upper Mississippi Valley | 63 | −10 | | | |

*Average cloudiness and departures from the normal.*

| Districts. | Average. | Departure from the normal. | Districts. | Average. | Departure from the normal. |
|---|---|---|---|---|---|
| New England | 5.1 | − 0.6 | Missouri Valley | 2.8 | − 2.9 |
| Middle Atlantic | 4.1 | − 1.6 | Northern slope | 3.9 | − 1.5 |
| South Atlantic | 3 4 | − 1.5 | Middle slope | 2.8 | − 1.8 |
| Florida Peninsula | 2.9 | − 0.9 | Southern slope | 2 8 | − 0.6 |
| East Gulf | 3.0 | − 2.0 | Southern Plateau | 2.7 | − 1.0 |
| West Gulf | 3.4 | − 1.7 | Middle Plateau | 4.1 | − 0.9 |
| Ohio Valley and Tennessee | 4.2 | − 1.8 | Northern Plateau | 5.2 | − 0.6 |
| Lower Lakes | 4.4 | − 2.2 | North Pacific | 6 2 | − 0.4 |
| Upper Lakes | 4.7 | − 1.3 | Middle Pacific | 5.6 | − 0.2 |
| North Dakota | 4.2 | − 1.6 | South Pacific | 5.0 | − 0.8 |
| Upper Mississippi Valley | 3.1 | − 2.6 | | | |

## RIVERS AND FLOODS.

By Prof. H. C. FRANKENFIELD, in charge River and Flood Division.

At the end of February, 1910, a snow flood was in progress in the Allegheny River, and on the 1st day of March flood stages were general over the lower portion of the river and its tributaries, Pittsburg reporting the flood stage of 22 feet at 4 p. m., while at Freeport, Pa., the crest stage was 24.6 feet, 4.6 feet above the flood stage at 1 a. m. A second rise of similar character came down from the headwaters a few days later, but as it was not supported by the tributaries, flood stages were not reached below the mouth of the Kiskiminetas River. The flood wave continued down the Ohio River, absorbing on its way considerable additions from all the northern tributaries from the Beaver to the Wabash.

The following table shows the flood stages at the various stations, the crest stages and the dates and times of their occurrence:

| Station. | Flood stage. | Crest stage. | Date. | Time. |
|---|---|---|---|---|
| | *Feet.* | *Feet.* | | |
| Pittsburg, Pa | 22 | 22.0 | 1 | 4 p. m. |
| Davis Island Dam, Pa | 25 | 21.4 | 1 | 9 p. m. |
| Dam No. 2, Pa | 25 | 22.8 | 1 | 9 p. m. |
| Beaver Dam, Pa | 27 | 34.4 | 2 | 3 a. m. |
| Wheeling, W. Va | 36 | 37.4 | 3 | 12 noon. |
| St. Marys, W. Va | 38 | 38.0 | 4 | 8 a. m. |
| Marietta, Ohio | 36 | 41.2 | 4 | 12 noon. |
| Parkersburg, W. Va | 36 | 42.0 | 4 | 5 p. m. |
| Point Pleasant, W. Va | 39 | 45.0 | 5 | 3 p. m. |
| Huntington, W. Va | 50 | 47.7 | 6 | 12 noon. |
| Catlettsburg, Ky | 50 | 48.9 | 6 | |
| Portsmouth, Ohio | 50 | 50.9 | 6 | 8 a. m. |
| Maysville, Ky | 50 | 49.3 | 6 | 8 a. m. |
| Cincinnati, Ohio | 50 | 51.8 | 7 | 8 a. m. |
| Madison, Ind | 40 | 41.8 | 7, 8 | |
| Louisville, Ky | 28 | 24.3 | 8 | 4 p. m. |
| Evansville, Ind | 35 | 39.7 | 10 | 8 a. m. |
| Henderson, Ky | 35 | 38.0 | 10 | 5 p. m. |
| Mount Vernon, Ind | 35 | 39.8 | 11 | 5:30 p.m. |
| Shawneetown, Ill | | 42.0 | 12 | |
| Paducah, Ky | 43 | 36.2 | 11–13 | |
| Cairo, Ill | 45 | 42.2 | 15 | |

It will be noticed that the differences between the flood crests at Pittsburg and places below were much greater than ususal This was due in largest measure to the great volumes of water from the northern tributaries, those to the southward contributing but little, although the secondary rise from the Allegheny River, and the retardation caused by the elevation of the water plane over the lower 200 miles of the river were of material assistance.

The warnings issued for these floods were of the usual accurate and timely character, and were instrumental in saving a large amount of property. As far as could be learned the losses were about as follows:

| District. | Property. | Crops. | Lands. | Suspension of business. | Saved by warnings. |
|---|---|---|---|---|---|
| Pittsburg, Pa | $5,000 | | | $20,000 | $100,000 |
| Parkersburg, W. Va.* | | | | | |
| Cincinnati, Ohio* | | | | | |
| Louisville, Ky.* | | | | | |
| Evansville, Ind.* | | | | | |
| Cairo, Ill | 5,000 | $2,000 | $1,000 | 3,000 | 50,000 |
| Total | 10,000 | 2,000 | 1,000 | 23,000 | 150 000 |

* Nothing of consequence.

The steamer *Virginia* lost her course during the night of March 5–6, and was stranded in a cornfield near Willow Grove, W. Va. She will probably not be floated unless another stage of 45 feet occurs at Point Pleasant, W. Va., during the present season.

Along the interior rivers of the State of Ohio, conditions were very much complicated by ice gorges, and definite forecasts of flood stages were impossible. General warnings were issued frequently, however, and all having property interests were able to take measures to make them secure. Flood stages were reached in all the rivers, and the losses were estimated at about $1,000,000.

At Defiance, a gorge in the Auglaize River carried away the Francis street highway bridge, causing a loss of $50,000, and at Napoleon, Ohio, on the Maumee River, the damage amounted to between $30,000 and $40,000.

The Wabash River flood was not so serious, although at Mount Carmel, Ill., the river was above the flood stage of 15 feet from March 1 to 13, inclusive, with a crest stage of 21.9 feet on March 9. The losses amounted to about $6,000, principally of crops.

Nothing of consequence occurred in the Missouri River above Williston, N. Dak. Between Williston and Bismarck, N. Dak., numerous ice gorges had formed, and conditions became so threatening in the vicinity of Bismarck that flood warnings were issued on March 13. At Bismarck the river rose above the flood stage of 14 feet on March 13, reached a crest of 26.4 feet at 2:20 p. m., March 14, and fell below flood stage at 3 p. m., March 16.

Losses were as follows:

| | |
|---|---|
| Property, exclusive of crops | $100,000 |
| Crops | 5,000 |
| Lands | none. |
| Total | 105,000 |

Property to the amount of at least $100,000 was saved through the Weather Bureau warnings. The crest of the rise reached Pierre, S. Dak., at 6 p. m., March 18, with a stage of 15 feet, 1 foot above flood stage, and did practically no damage. While the floods below Bismarck were of no great consequence, they were of special interest in that they were the first to afford opportunity for observation and investigation since the organization of the river and flood service in that section. The losses, while considerable in the aggregate, did not fall heavily upon particular communities or individuals, and a large amount of property was saved through the Weather Bureau warnings, the issue of which was greatly hampered by inadequate methods of communication.

The crest stage at Sioux City, Iowa, was reached at 5 p. m., March 20, when the gage read 16.8 feet, 0.2 foot below the flood stage. It has been impossible to obtain any satisfactory estimate of the losses caused by these floods, but judging from the few reports received, the total could not have been less than $50,000, while the value of property saved through the warnings was probably nearly as much.

The James River flood was most pronounced in the vicinity of Huron, S. Dak., where the river remained above the flood

stage of 9 feet from March 7 to 26, inclusive, with a crest stage of 14.6 feet on March 15. Bottom lands were overflowed to a width of about 1½ miles, but the timely warnings prevented serious damage.

Nothing of interest occurred below Sioux City, although flood stages were experienced as far south as St. Joseph, Mo. At Omaha the crest stage of 19.5 feet, on March 22, 0.5 foot above flood stage, was the highest stage for many years, and some slight damage resulted to property in the bottoms. The rise passed Kansas City on March 24, with a stage of 20.2 feet, 1.8 foot below flood stage, and Hermann, Mo., on March 26, with a stage of 16.4 feet, 4.6 feet below flood stage.

The breaking up of the ice in the Red River of the North was not attended by high water, as the winter snows were very limited in quantity. At Moorhead, Minn., the crest stage on March 18 was 23.2 feet, 2.8 feet below flood stage. The total rise at Wahpeton, N. Dak., was 5 feet; at Caledonia, N. Dak., 11.9 feet; at Moorhead, Minn, 13.8 feet; at Grand Forks, N. Dak., 22.9 feet and at Pembina, N. Dak., 21 feet. At Drayton, N. Dak., a rise of 20 feet was reported on March 21, with a crest stage of 40 feet. This rise was doubtless a temporary one due to an ice gorge.

The Illinois River was generally above flood stage throughout the month, but no damage was reported. Ordinary stages prevailed in the upper Mississippi River, but below Cairo, Ill., there was a decided rise due to the tide from the Ohio River, although flood stages were not reached below Memphis. The crest of the rise passed Cairo on March 15, and reached New Orleans on March 26.

There were also moderate snow floods in the rivers of southern Michigan concurrent with those of the Ohio Valley. Warnings were issued at the proper time for the Grand River watershed, but nothing of special interest occurred. The crest stage at Grand Rapids was 12.5 feet, from 3:30 to 7:00 p. m., March 8, and the river was above the flood stage of 11 feet from March 7 to 10, inclusive. Similar conditions prevailed over the watershed of the Saginaw River where river and flood service has recently been inaugurated.

The warm wave that set in over the eastern portion of the country on February 26, rapidly melted the deep snows and floods of varying character were general in all the northeastern rivers. As a rule conditions were very much complicated by ice gorges, with consequent increased difficulty in forecasting coming stages. Warnings were first issued for the Susquehanna River district at and above Binghamton from February 25 to 28, inclusive, and the results were as forecast.

As a rule the crest stages were from 1 to 3 feet deep above the flood stages and the damage amounted to about $100,000, while property to the amount of about $50,000 was saved by the warnings.

By Monday, February 28, all ice remaining in the Susquehanna River and its tributaries below Binghamton and east of Clearfield, Pa., was moving, the gorge at Renovo, Pa., on the West Branch, moving out at 9 a. m., of that day on a 25-foot stage of water. There were, however, no other flood stages reported on the West Branch. On the North Branch higher stages prevailed, especially at Wilkes-Barre, Pa., where the crest stage of 26 feet on March 3, was 6 feet above the flood stage. Flood stages also prevailed from Harrisburg to the mouth of the river, although at Harrisburg the highest stage on March 3 was only 0.2 foot above the flood stage of 17 feet. During the flood several lives were lost at Harrisburg, through carelessness, it is said. Warnings were issued as usual, and the damage in the district above Harrisburg and below Binghamton did not exceed $25,000, of which $15,000 was incurred at Wilkes-Barre, and about $5,000 at Renovo and vicinity. Below Harrisburg, and especially at Port Deposit, Md., the damage was much greater, probably about one-half as much as during the flood of January, 1910, when it was estimated at $200,000.

Continued high temperatures during the early days of March melted more of the mountain snows, and a light rain fell on March 6. This started another general rise in the North and West branches, and additional warnings of another moderate rise were sent to the North Branch.

In the Mohawk and Hudson valleys and the smaller watersheds of the State of New York the floods were much more serious. They were due mainly to ice gorges and their movements, although the flood volumes were greatly augmented by large quantities of snow water that were brought out by the high temperatures. The Mohawk floods appear to have been most serious in the vicinity of Herkimer and Fort Plain, N. Y. An ice gorge in West Canada Creek was mainly responsible for the flood, which was a backwater one, as the Mohawk waters were not very high at the time. The damage done was of the usual character in time of flood and amounted to about $100,000. Over other portions of the Mohawk Valley conditions were not so serious.

There was no high water in the Hudson above the mouth of the Mohawk, and that below was caused by ice gorges below Albany. These gorges backed up the water as far as Troy, N. Y., causing stages of 18.3 feet at Albany at 5 a. m., March 2, and at Troy of 21.5 feet at 5 p. m., March 2, flood stages being at 12 and 14 feet, respectively. Warnings of the approach of the high water were issued on February 28 and March 1, and they were of the greatest assistance to the public.

The total losses in the Hudson and Mohawk valleys, exclusive of those sustained through enforced suspension of business, amounted to about $250,000, while property to the value of $75,000 was saved by the Weather Bureau warnings. It has been impossible to obtain estimates of the losses occasioned by business suspension, but they were very large, as all freight traffic was interrupted, passenger travel was greatly delayed, and many factories from Utica to Albany were closed for a time.

The floods also extended, in moderate form, into the streams of northern New England without damage of consequence. Warnings for these floods were issued on March 2. The only flood stage in the Connecticut River, resulting from the same general conditions, occurred at Hartford, Conn., at 12 noon, March 3, when the stage was 18.7 feet, 2.6 feet above flood stage. A stage of 16.5 feet, at 10 p. m., March 28, was caused by the melting of the snow that had remained in sheltered places in the valley above.

There were also moderate floods during the early days of the month in the rivers of the South Atlantic States. They were due to general, although not excessive rains, and no losses of consequence resulted, except along the Ocmulgee River where a power plant and some bridges were damaged to the extent of about $100,000. Timely warnings were issued for all these floods.

A rise of a few feet in the Salt and lower Gila rivers of Arizona was successfully forecast on March 26, and proved of advantage to irrigation and engineering interests.

The same general phenomena of rain and high temperatures that prevailed over the eastern portion of the country during the last few days of February were also experienced at the same time in the northern districts west of the Rocky Mountains, and for the second time within 3 months they were visited by severe floods, accompanied in the mountains by avalanches and landslides that were very destructive to both life and property. On the morning of March 1 an avalanche swept 2 passenger trains into the canyon at the west portal of the Cascade Tunnel at Wellington, Wash., and it is said that over 80 lives were lost. Two days previous another avalanche at Mace, Idaho, in the Coeur d'Alenes, nearly wiped out the little town and destroyed at least a dozen lives.

The floods were general over all the smaller streams of Washington, Idaho, and northern Oregon, as well as in the upper

Snake River, and a description thereof would be but a repetition of the disasters of the early winter. Whitman County, Wash., was probably the chief sufferer, and it is estimated that the losses there were at least $1,000,000. The losses over the remainder of the State were about as much more. In the vicinity of Caldwell, Idaho, the losses amounted to about $200,000. These estimates do not include the losses to the railroads, which can not be given at this time. While no regular flood warning service is possible over the greater portion of this district, a general flood warning issued from the local office of the Weather Bureau at Portland, Oreg., on February 26, was of considerable value.

The flood in the Willamette River was, of course, forecast at the proper time, and a large amount of freight was removed from the docks at Portland before the arrival of the flood waters. The flood stages were general from Albany, Oreg., to the mouth of the river, with a crest stage of 19.6 feet, or 4.6 feet above the flood stage at Portland on March 5.

Nothing of interest occurred in the Sacramento watershed except the rapid disappearance of the winter snows, presaging a shortage of water during the coming season.

ICE.

The dates of breaking up of the ice in some of the more important rivers were as follows: Mississippi River, at Fort Ripley, Minn., on March 14; at Dubuque, Iowa, on March 16, and at Keokuk, Iowa, on March 3. Navigation was opened at Keokuk on March 15, and on Lake Pepin on March 24, the latter date said to have been the earliest on record. The lowest point at which ice was observed was at Chester, Ill., where there was some floating ice on March 2. Missouri River at Bismarck, on March 13, and Omaha on March 4. Red River of the North at Wahpeton, N. Dak., on March 7; Moorhead, Minn., on March 19, and Pembina, N. Dak., March 28.

Navigation on the Hudson River was opened on March 17, and at Hartford, Conn., on the Connecticut River, on March 8. The ice went out at Bellows Falls, Vt., on March 26, but the Penobscot River was not open throughout its entire length until March 27, although the ice went out at Mattawamkeag, Me., on March 8.

All dates were unusually early owing to the high temperature of the month.

Hydrographs for typical points on several principal rivers are shown on Chart I. The stations selected for charting are Keokuk, St. Louis, Memphis, Vicksburg, and New Orleans, on the Mississippi; Cincinnati and Cairo, on the Ohio; Nashville, on the Cumberland; Johnsonville, on the Tennessee; Kansas City, on the Missouri; Little Rock, on the Arkansas; and Shreveport, on the Red.

## SPECIAL PAPERS ON GENERAL METEOROLOGY.

### COMMENTS ON PROFESSOR SWAIN'S ARTICLE ON FLOODS AND FORESTS.

(In American Forestry, April, 1910.)

By THOMAS P. ROBERTS, United States Engineer Office, Pittsburg, Pa.

The underlying motive of Professor Swain's argument in the Engineering News of April 14 is to connect the forest problem with the navigability of rivers and hence the questions involved are of considerable national importance. The position of the "foresters," of which body Professor Swain is a prominent representative, may be briefly stated as follows, to wit:

First. The forests, especially on the mountain slopes about the headwaters of the streams, tend to equalize the discharge of water from rains and melted snow restraining the floods on navigable rivers, and at the same time increasing their low water discharge from reserves of ground storage.[1]

Against this proposition some of the engineers engaged on river improvements contend that observations of river gage records and calculations of stream discharge lend but little, if indeed any, support to the theories of the foresters. Among other things it is contended that the per cent of rainfall discharged by the rivers during the winter or flood months, indicates, at least for most of the Ohio Valley, but a limited contribution to ground storage during that time and that this storage capacity is usually taxed to its utmost limit before the close of winter, and hence its restraining influence would seldom be of any importance. It must be the case that the line of permanently saturated soil and rock on great areas is much nearer the surface than it is commonly thought to be. This is undoubtedly the case where short-lived "wet weather" springs abound, the most prolific of which cease to flow in a few hours after the storms have passed.

Second. On the part of the foresters it is claimed that the destruction of forests leads to such soil waste or erosion about the headwaters as to result in the silting up of the beds of our navigble streams and thus to interference with traffic upon them.

Against this it is replied that on the Ohio at least, by reason of the greatly diminished number of snags and the effect of training works constructed by the Government at occasional points, there is much less silting than formerly, and that in consequence the navigable depth is somewhat better and very much safer. With the reduction in numbers of snags and tree trunks, which, in old times, formed the nucleus of sand bars, the force of the flood currents tends to create and maintain a more uniform cross section with less undermining of the banks and consequently greater stability of shore bars. Speaking of the San Francisco River in Brazil the late W. Milnor Roberts, C. E., said the permanent shore and other bars were a distinct advantage to the navigation of the stream by contracting the discharge in wide places and thus, with a given volume of water, increasing the navigable depth. The present writer, whose experience on western rivers dates from 1866, and who is very familiar with the stories of pilots extending back to 1837, takes this occasion to emphasize the statement that the Ohio is greatly improved over its old-time conditions in every respect. Regarding the Ohio's low water discharge, certain United States Indian Commissioners, in 1785, reported such tributaries as the Little Miami, 1,800 square miles drainage area, near where Cincinnati has since grown up, so low that there was no water visible flowing from it into the Ohio.[2] The figures of measured discharge, reported by Col. Charles Ellett at Wheeling, and Major Sanders at Pittsburg, in 1838, were as low as the discharge for 1908. The year 1854 is thought to have been about the same as 1838 and 1908, but the actual minimum discharge was not obtained in 1854. Also, regarding high water discharges, attention is invited to Judge Hugh Brackenridge's (afterwards Chief Justice of Pennsylvania) account, published in 1786 in the Pittsburg Gazette, of a flood in the Allegheny scouring away the river bank near Fort Pitt, totally destroying a long row of houses with their gardens. Viewing these extremes, it is difficult to believe that the operations of man during the past century have resulted in any detriment to the river.

Professor Swain admits, and it should be generally understood, that grave doubts are entertained by some of our national legislators as to the right of Congress to authorize expenditures for the purchase of land and reforesting same unless it can be clearly shown that such expenditures will result in a benefit to the public and made necessary for the improvement of inland navigation.

[1] To amount to anything for the benefit of open river navigation, the volume of such reserve water must be very great.

[2] The commissioners reported that their flat boats were frequently aground on the shoals, which were as bad below Wheeling as above that point.

It is only, however, quite recently that the foresters have proposed to take the navigable rivers under their wings. Formerly it was the matter of diminishing timber supply and advancing prices, to which they patriotically directed the attention of the country, and to this good work no one ever raised a voice in opposition. When, however, they encountered the constitutional difficulty above referred to they at once proceeded to annex river improvement plans to their field of enterprise.

Some of the first claims of the foresters against the operation of the river engineers were ridiculous in the extreme. Thus, for instance, that with forest conservation, aided by occasional reservoirs over the basin of the Ohio, locks and dams would be useless, that perennial depths of 6 or more feet could be maintained from near the heads of the principal tributaries which would afford unobstructed navigation the year round. It was also claimed that the floods could be kept below the danger line and that the income from water powers would compensate for the necessary expenditure.

Propositions looking to these ends were put forward in a most illuring manner in magazines and newspapers, and through boards of trade, and lecture bureaus, while university professors stepped into the field to work for the common cause. There is no doubt about it, it was a common cause, for the people everywhere agreed with the editors, professors, and lecturers. Even to-day if the question were to be decided by numbers the foresters would win by a tremendous majority, and it is rather odd they have not before this secured their desired legislation. There must be, it appears, some things which almost every one thinks should be done, which are not done because of the restraining advice of but a few individuals. It is probably the case that while the mass of the people are with the forestry leaders in sentiment they are not overly excited and are ready and willing to listen to representations of the "corporal's guard" in opposition to the foresters. It was so in 1885 when the present writer was actually invited by the American Forestry Congress to appear before that body and address it, the invitation being accompanied by the friendly advice that the guest would be appearing before an audience unanimously hostile to his views. A personal appearance was not possible, but the congress very generously published his paper without an axe mark in its proceedings.

To-day, however, the number of those in so-called "opposition" to the claims of the foresters regarding river improvements is larger and increasing in numbers, and the congressional committes are willing to hear them. Not for one moment should the river engineers and their little band of friends be considered as hostile to the proposed expenditure of $5,000,000 for Appalachian and White mountain lands for the purpose of converting them into national forests, but they do not believe in attempting to justify such an expenditure on the ground that it will better the navigable conditions of the rivers, or in any way reduce the expenditures necessary to complete the projects now under way for the improvement of inland navigation.

Too much biased or, rather, extravagant opinion, unaccompanied by the data on which it is based, creeps into the discussions of the forest and flood problems, as presented by such writers as Professor Swain, and which really does his side of the question more harm than good. It has been pointed out frequently by meteorologists how common it is for erring humanity trusting to individual recollections, to assume that the climate is changing, especially as to snowfall, and then come ill-founded deductions and theories based upon them, all firmly believed; the more so because they are rarely contradicted, but nevertheless wrong. Thus, for instance, Professor Swain goes back as far as the 1879 report of the Chief of Engineers, U. S. A., to quote Maj. Charles O. Allen, as follows:

> The weight of evidence collected by various writers upon the subject of rainfall seems to indicate that reforesting of extensive areas of country is followed by a more equable distribution of the rainfall throughout the year.

More personally painful is the statement that Professor Swain lays bare regarding the present writer's weakness and ignorance when he wrote in the same 1879 report, as follows:

> The clearing of forest land, I believe, is followed by greater fluctuations in our rivers. I think the storm waters undoubtedly reach the streams more rapidly now than formerly.

This exposure makes the present writer feel more disposed to forgive the weakness of others who lingered longer outside the "true faith" than he did. The present writer began to be converted in 1883 and was nearly turned around to the side of recorded facts, especially those of long-continued European river observations, when he was called to appear before the American Forestry Congress in 1885.

Maj. Charles W. Raymond, writing in the Chief of Engineer's Report for 1891, is also quoted by Professor Swain as follows:

> The destruction of forests from the mountain crests and slopes of a water shed is undoubtedly the principal cause of the increase of the average magnitude of floods. The evidence collected during the past 25 years, establishing this conclusion, is well nigh overwhelming, and it is verified by repeated observations not only in the mountains of Europe, but also in our own land.

Then a few lines below Major Raymond continues as follows:

> Colonel Torrelli affirms as the result of careful observations that four-fifthsof the precipitation in forests is absorbed by the soil or detained by the surface of the ground to be gradually given up in springs and gentle rills and only one-fifth of the precipitation is delivered to the rivers rapidly enough to create floods. Upon the same slopes and surfaces denuded of their forests the proportions are reversed.

It is to be noted that this is a difference of four to one in favor of the forests. There are so very many negative results shown in the studies of river records as to leave no standing whatever for such wild claims as those made by Colonel Torrelli.

Professor Swain should not speak of "careful observations," when quoting others, without looking them up, especially in view of the fact that in other parts of his paper he disclaims some of the extravagant claims made for forests in restraining floods.

On the subject of erosion also Professor Swain can be criticised. In the place where he is trying to corner Prof. Willis L. Moore, as if to illustrate, he says:

> The immediate effect of deforestation on floods and in the deposition of sediment will clearly be felt first in the upper reaches of the streams, on the Ohio River, for instance, at Pittsburg and points above.

The case probably looked good on the map, but the professor could scarcely have made a greater mistake than in choosing the upper Ohio. In many places in western Pennsylvania and West Virginia very steep hillsides may be seen which have been plowed and cultivated for decades and still they are planted in wheat and corn without the least attempt to fertilize them and with little done with ditches to carry off surface water. When left fallow the bared ground is productive of grass quite sufficient to prevent their gullying. There are regions of steep slopes in the glacial drift areas of the upper Allegheny, formerly heavily covered with pine trees, now bare excepting for grass, while the streams issuing from such comparatively bared regions have the largest low water discharge per unit of area of any streams in Pennsylvania, unless exception be made of the limestone district of the Cumberland Valley west of Harrisburg. The Monongahela River is much clearer at medium flood and low stages now than in early periods, for it was formerly muddy the year around and was called, in some Indian dialect, "The Caving Bank," or the "Muddy River," "Monongahela" meaning muddy or caving bank. Its extreme clarity at low water periods of later years, it is proper to say, is due to acids reaching it from coal mines and galvanizing establishments.

It is, however, time that a treaty of peace be made between the contending factions of the forestry and flood problem. The present writer believes that the river engineers will join with the foresters any time for the salvation of our forests. They may

want to stand on the proposition, however, that the *irregularities of the rivers are due to their habit of following the irregularities of precipitation, irrespective of the nature of the cover on the ground.* The present writer, who claims to be a disciple of the river engineers, would like to present as an article for the treaty of peace, that there is an analogy between the annual discharge of the upper Ohio and the variation of levels of the Great Lakes, for the purpose of showing that whatever it is which produces extremes of drought or high water in the Ohio, has its seat of operation in the Gulf of Mexico and the Pacific Ocean, that the forested areas of the central United States are creations of those operations, and that cutting away the forests has in no wise interfered with them, or reduced or increased the volume of the Ohio returned annually to the ocean.

It is to be feared, however, that no lasting peace can be made until the meteorologists and the hydrologists have worked up all their available data (they are the court of last resort) and deal only with facts and figures, as indeed the engineers have tried to do, but have not always been well treated by the popular tribunals.

## SUMMARY OF THE CLIMATOLOGICAL DATA FOR THE UNITED STATES, BY SECTIONS.

By Prof. FRANK H. BIGELOW, in charge of the Climatological Division.

The climatological data of the United States, which have accumulated for the last half century, have been recently collected together in a series of summaries, 106 in number, covering the United States by sections, as given on the accompanying chart. It has been found convenient for various purposes to bring the data together for ready reference, in order that the numerous inquiries addressed to the Central Office or to the section directors may be more readily answered. The summaries also serve the purpose of special studies on the part of engineers and others interested in water resources, in farming operations, and in climatological matters generally. The records of the Central Office have been carefully compared with the retained copies on the stations, and all possible errors have been eliminated from these tables. The Annual Report of the Chief of the Weather Bureau will contain similar data for the years succeeding 1908, so that the record will be continuous for the future. The summaries contain a statement of the topographical and climatic features of the region, with remarks of a practical nature such as are likely to be of interest to the reader. The tables include the precipitation for the section, giving the monthly, annual, and average amounts of rain or the equivalent of snow in inches and hundredths. Some gaps which have occurred in the records are filled in by interpolation of data from surrounding stations, such interpolated values being printed in bold faced type.

A series of subordinate tables follow, giving (*a*) the average number of days with 0.01 inch or more of precipitation in each month; (*b*) the mean temperature; (*c*) the highest temperature; (*d*) the lowest temperature; (*e*) the average hourly wind movement in miles; (*f*) the mean relative humidity in percentage; (*g*) the prevailing wind direction; (*h*) the frost data, etc.

A brief summary of hydrographic data for the section, furnished by the United States Geological Survey, is added, which gives some of the relations between the precipitation and the discharge of the important rivers for each month, namely, the maximum, minimum, and mean discharge in second-feet; also per square mile, together with the run-off as depth in inches on the drainage area and total in acre-feet.

Diagrams are added showing the comparative monthly distribution of precipitation at a number of stations, and a chart showing the boundaries of the sections, the location and number of reporting stations, river systems, and general elevation above sea level.

These summaries will finally be brought together in a volume and this will give a history of the climate of the United States in as convenient a form for reference as is practicable.

## RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. FITZHUGH TALMAN, Librarian.

The subjoined titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers or other communications bearing on meteorology or cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled; it shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau. Unsigned articles are indicated by a ——.

*American forestry. Washington. v. 16. April, 1910.*

**Roth, Filibert.** The Appalachian forests and the Moore report. p. 209–217.

**Glenn, L. C.** Forests as factors in stream flow. p. 217–224.

**Swain, George F.** "The influence of forests on climate and on floods." A review of Prof. Willis L. Moore's report. p. 224–240.

*Astrophysical journal. Chicago. v. 31. April, 1910.*

**Barnard, E. E.** Observations of the aurora made at the Yerkes observatory, 1902–1909.

*Electrician. London. v. 64. March 11, 1910.*

—— Some magnetic storm records. p. 891–892. [Includes diagram of earth currents obtained on broken Atlantic cable before and during magnetic storm.]

*Engineering news. New York. v. 63. April 14, 1910.*

**Swain, George F.** The influence of forests on climate, floods, and erosion. p. 427–429. [Extracts from discussion of a report by Prof. Willis L. Moore, from an advance copy of a contribution to "American forestry."]

**White, Lazarus.** The retarding of snow melting by forests in the Catskills. p. 436. [Illustrated.]

*Geographical journal. London. v. 35. April, 1910.*

**Beadnell, H. J. Llewellyn.** The sand dunes of the Libyan desert. p. 379–395. [Includes discussion of sand-carrying winds and sandstorms.]

**Huntington, Ellsworth.** Problems in exploration—Central Asia. p. 395–419. [Outlines methods of investigating possible changes of climate in Central Asia.]

*Indian meteorological department. Memoirs. Simla. v. 21, pt. 1. 1910.*

**Walker, Gilbert T.** On the meteorological evidence for supposed changes of climate in India. p. 1–21.

*Nature. London. v. 82. 1910.*

**Bo'ston, W. E.** The spectrum of the zodiacal light. p. 470–471. (Feb. 17.)

*Nature. London. v. 83. 1910.*

**Schuster, Arthur.** Prof. K. J. Ångström. p. 134–135. (Mar. 31.)

**Cook, J.** Center of gravity of annual rainfall. p. 125–126. (Mar. 31.)

**Watt, Andrew.** Center of gravity of annual rainfall. p. 188. (Apr. 14.) [Criticism of Cook's method of comparing annual rainfalls.]

*Popular science monthly. New York. v. 77. May, 1910.*

**Bigelow, Frank H** The circulations of the atmospheres of the earth and of the sun. p. 437–461.

**Smith, James Perrin.** Ancient climates of the west coast. p. 478–486.

*Royal society. Philosophical transactions. London. ser. A. v. 210.*

**Swann, W. F. G.** On the specific heats of air and carbon dioxide at atmospheric pressure by the continuous electric method at 20° C. and 100° C. p. 199–238.

*Royal society. Proceedings. London. ser. A. v. 83. 1909.*

**Simpson, George C.** On the electricity of rain and snow. p. 394–404.

*Science. New York. v. 31. April 15, 1910.*

**Matthes, François E.** Air currents in mountain valleys. p. 577–578.

*Scientific American. New York. v. 102. April 9, 1910.*

—— A reform in meteorological units. p. 294.

*Symons's meteorological magazine. London. v. 45. April, 1910.*

**Mossman, R. C.** Correlation of climatic changes. p. 45–46.

*Aérophile. Paris. 18 année. 15 mars 1910.*

**Lorenc, Vladimir, & Lorenc, Victor.** Du rôle du vent dans l'aviation. p. 127–129.

*Ciel et terre. Bruxelles. 31 année. 1910.*

**Neumann, S. Navarro.** Le tremblement de terre Ibérique du 23 avril 1909. p. 41–51. (Février.)

**V[andevyver].** Vulgarisation de la météorologie. p. 99–106. (Mars.)

—— Le paratonnerre avant Franklin. p. 127–131. (Mars.)

**L., E.** Électricité atmosphérique et électromètres. p. 140–141. (Mars.)

*France. Académie des sciences. Comptes rendus. Tome 150. 21 mars 1910.*

**Nouailhac-Pioch & Maillet, Edmond.** Sur les crues de la Seine en janvier-février 1910. p. 813–816. [Includes summary of the meteorological factors.]

*Géographie. Paris. Tome 20. 1909.*

**Huot, V.** Observations géographiques et climatologiques dans les bassins de haut Orénoque et du Rio Negro supérieur. p. 192–195. (15 Sept.)

**Laloy, L.** La glace du lac Balaton et des lacs de Lunz. p. 248–251. (15 oct.) [Abstract of papers by Cholnoky & Götzinger on formation of ice in lakes.]

**Lemoine, Paul.** Le climat de l'Afrique du nord a-t-il changé depuis l'époque romaine? p. 253–255.

*Nature. Paris. 38 année. 1910.*

**Lemoine, Paul.** La crue de la Seine en 1910—ses causes—son mécanisme. p. 291–301. [Illustrated.]

**Bonnafé, Edouard.** Nouveau photomètre de précision. p. 319–320. (16 avril.) [Includes data of fraction of daylight received in various buildings. Illustrated.]

—— Le barographe métallique à poids tenseur. Supplément p. 164. (23 avril.) [Illustrated.]

*Belgium. Observatoire royale. Annuaire météorologique 1910. Bruxelles. 1910.*

—— La répartition de la pluie en Belgique. p. 7–46.

**Bodman, G.** Le climat, fonction de la température et de la vitesse du vent combinées. Étude sur les climats polaires. p. 47–74.

**Vincent, E.** Le dépouillement des inscriptions rapportées par les ballons-sondes. p. 198 211.

*Annalen der Hydrographie und maritimen Meteorologie. Berlin. 38. Jahrgang 1910.*

**Deutsche Seewarte.** Versuche mit verschiedenen Systemen von Nacht-Sturmsignalen an der deutschen Küste. p. 97–98. (März.) [Describes experiments about to be undertaken. Illustrated.]

—— Monatskarten des Luftdrucks sowie der Luft- und Wassertemperatur für den Indischen Ozean nebst angrenzenden Gebieten. p. 145–153. (April.) [With monthly charts of pressure, water temperature, and air temperature.]

*Bavaria. Deutsches meteorologisches Jahrbuch. München. 1908.*

**Lengacker, F.** Untersuchungen über die Schneeverhältnisse Süddeutschlands auf Grund der Beobachtungen 1890–1900. Anhang p. C 1–36.

**Schmauss, August.** Die von der K. B. Meteorologischen Centralstation im Jahre 1908 veranstalteten Registrierballonfahrten (mit 1 Beilage: Gleichzeitige Temperaturen auf der Zugspitze und in der freien Atmosphäre in gleicher Seehöhe.) Anhang p. 1–48.

*Geographische Zeitschrift. Leipzig. 16. Jahrgang. March, 1910.*

**Greim, G.** Meteorologische Beobachtungen in Deutschland und ihre Verarbeitung. p. 142–154.

*Globus. Berlin. Band 97. 7. April, 1910.*

**Koch, L.** Hochwässer und milder Winter. p. 207–208.

*Jahrbuch der Radioaktivität und Elektronik. Leipzig. 7. Band—1. Heft. 1910.*

**Negro, C.** Beitrag zur Erforschung der Elektrizitätszerstreuung in der Atmosphäre. p. 28–38.

*Meteorologische Zeitschrift. Braunschweig. Band 27. März 1910.*

**Wagner, Arthur.** Die Temperaturverhältnisse in der freien Atmosphäre. p. 97–112. [Auto-abstract of memoir in Beitr. Phys. fr. Atmos.]

**Meyer, Rudolf.** Eiskristalle und Ringe. p. 112–120.

**Braak, C.** Periodische Klimaschwankungen. p. 121–124.

—— Die Meerestemperatur an den norwegischen Küsten. p. 124.

—— Ausserordentliche horizontale Temperaturunterschiede. p. 126–127. [Reports a difference of 20° C. in a horizontal distance of 10 kilometers.]

**Schmidtmayer, Alfred.** Über den Einfluss der Elektrizität in einigen die Form der Hagelkörner betreffenden Fragen. p. 133–135.

**Johansson, Oscar V.** Sonnenschein und Bewölkung. p. 137–138.

*Physikalische Zeitschrift. Leipzig. 11. Jahrgang. 1. April, 1910.*

**Gockel, Albert.** Luftelektrische Beobachtungen bei einer Ballonfahrt. p. 280–282.

**Wiechert, E., & Geiger, Ludwig.** Bestimmung des Weges der Erdbebenwellen im Erdinnern. p. 294–311.

**Krebs, Wilhelm.** Das Adriatische Meer und sein Einfluss auf das Klima seiner Küsten. p. 311–312.

*Prometheus. Berlin. Jahrgang 21. 23. März 1910.*

—— Bildung von Ozon unter dem Einfluss ultravioletten Lichtes. p. 98. (Beilage.)

*Weltall. Berlin. 10. Jahrgang. März 15, 1910.*

**Meissner, Otto.** Einige Beobachtungen über das Klima von Berlin. p. 175–178.

*Wetter. Berlin. 27. Jahrgang. März 1910.*

**Jochimsen, C.** Der Sommer in Schleswig-Holstein. p. 49–56.

**Naegler, Wilhelm.** Die meteorologische Station Caaschwitz (Reuss i. L.) 1898–1908. p. 60–63.

**Grossmann, L.** Der Gebrauch der Chiffrierung im Wetterdienst. p. 66–72.

*Zeitschrift für Gletscherkunde. Berlin. Band 4. März 1910.*

**Brückner, Ed[uard].** Gletscherschwankungen in der Schweiz 1800–1900. p. 227–229.

*Zeitschrift für Instrumentenkunde. Berlin. 30. Jahrgang. März 1910.*

**Schmidt, W.** Der Variograph, ein Instrument zur Registrierung der Änderungsgeschwindigkeit des Luftdruckes. p. 83–84.

*Hemel en Dampkring. Den Haag. 7. Jaargang. Maart 1910.*

**S., C.** Windvectoren. p. 165–168.

*Nuovo cimento. Pisa. Anno 56. Febbraio, 1910.*

**Bellia, C.** Sopra il calcolo della costante solare. p. 85–104.

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## RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Librarian.

The following have been selected from among the titles of books recently received, as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies. Most of them can be lent for a limited time to officials and employees who make application for them. Anonymous publications are indicated by a ——.

**Aachen. Meteorologisches Observatorium.**
Deutsches meteorologisches Jahrbuch 1908. Jahrg. 14. Karlsruhe. 1909. 80 p. f°.

**American climatological association.**
Transactions. v. 25, 1909. Philadelphia. 1909. xxiv, 287 p. 8°.

**Batavia. Kon. magnetisch en meteoro'ogisch Observatorium.**
Regenwaarnemingen in Nederlandsch-Indie. Batavia. 1909. 4°.

**Belgium. Observatoire royal.**
Annuaire météorologique, 1910. Bruxelles. 1909. 220 p. 12°.

**Bucharest. Observatoire astronomique et météorologique.**
Mouvements sismiques en Roumanie 1907–1909. Bucarest. 1910. 21 p. 8°.

**Chile. Servicio meteorolojico.**
Anuario....1908. Valparaiso. 1909. 434 p. 4°.

**Ficker, H. von.**
....Weitere Beiträge zur Dynamik des Föhns. Wien. 1910. 61 p. f°. (Innsbrucker Föhnstudien 4.) (Denkschr. Akad., Wien. 85 Bd.)

**France. Bureau central météorologique.**
Annales. Année 1905. I. Mémoires. Paris. 1909. f°.
Same. Année 1907. II. Observations. Paris. 1909. f°.

**Germany. Deutsche Seewarte.**
Ergebnisse der meteorologischen Beobachtungen....für das Lustrum 1901–1905 sowie für das Dezennium 1896–1905. Hamburg. 1910. 19 p. f°.

**Granger, Francis S.**
Weather forecasting by simple methods. Nottingham. 1909. xii, 121 p. 8°.

**Hesse. Grossherzogl. hydrographisches Bureau.**
Niederschlagsbeobachtungen. 1909. 9. Jahrg. Darmstadt. 1910. 51 p. f°.

**Hunt, H. A.**
The climate and meteorology of Australia. Melbourne. [Rev. ed.] 1910. 35 p. 8°. (Commonwealth bureau of meteorology, Melbourne. Bulletin No. 2.)
Monthly distribution of Australian rainfall. Melbourne. 1909. 10 p. f°. (Commonwealth bureau of meteorology, Melbourne. Bulletin No. 4.)
The remarkable flood rains over southeastern Australia during the winter of 1909. Melbourne. 1909. 15 p. f°. (Commonwealth bureau of meteorology, Melbourne. Bulletin No. 3.)

**India. Meteorological department.**
Memorandum on recent weather and on the probable character of that of January and February, 1910. Calcutta. 1910. 3 p. f°.

**10th International navigation congress, Milan, 1905.**
Influence of deforestation and of the drying up of marshes on the sphere of influence and on the performance of the rivers. [Reports by various authors.] Brussels. 1905. 8°. (1. Section: Inland navigation. 2. Question.)

**Kérespert, Félix.**
Météorologie du matelot. Paris. n. d. 96 p. 16°.

**Kölzer, Joseph.**
Ueber die tägliche Drehung der Windfahne. Spezialuntersuchung auf Grund der Aufzeichnungen des Anemographen am Aachener meteorologischen Observatorium. Karlsruhe. 1909. 28 p. f°. (Inaug.-diss.)

**Lutz, C. W.**
....Eine neue Form des Ebertschen Aspirations-Apparates. München. 1909. 17 p. 8°. (Sitzungsb. d. Kön. bayer. Akad. Wiss., Math.-phys. Kl. Jahrg. 1909. 14. Abh.)

**Maurer, Jul., & others.**
Das Klima der Schweiz. Auf Grundlage der 37-jährigen Beobachtungsperiode 1864–1900. In zwei Bänden. Erster Band. Text. Frauenfeld. 1909. viii, 302 p. f°.

**Meteorologische Zeitschrift.**
Namen- und Sachregister zu den Bänden 1–25, 1884–1908. Braunschweig. 1910. 231 p. 4°.

**Moore, Willis L.**
Descriptive meteorology. New York. 1910. xviii, 344 p. 8°.
**Netherlands. Koninkijk nederlandsch meteorologisch Instituut.**
Jaarboek. 1908. Utrecht. 1909. f°.
**Prussia. K. preussisches aeronautisches Observatorium bei Lindenberg.**
Bericht über die aerologische Expedition . . . . nach Ostafrika im Jahre 1908, erstattet von ihrem Leiter Arthur Berson. Braunschweig. 1910. 119 p. f°.
**Roux, F. L.**
Guide des ouragans. 2 ed. Paris. n. d. 164 p. 8°.
**Strachan, Richard.**
Evaporation gauges. (*In* Horological journal. London. v. 47. 1905. p 129–134, 157–161, v. 48, 1906, p. 19–24, 41–45, 50–54.)
Methods of estimating evaporation. (*In* Horological journal. London. v. 48. 1906. p. 79–80, 95–96, 160–162, 178–180.)
**Tananarivo. Observatoire.**
Observations météorologiques, v. 20, 1908. Tananarive. 1909. vi, 271 p. 8°.

## CONDENSED CLIMATOLOGICAL SUMMARY.

In the following table are given, for the various sections of the Climatological Service of the Weather Bureau, the average temperature and rainfall, the stations reporting the highest and lowest temperatures with dates of occurrence, the stations reporting the greatest and least monthly precipitation, and other data, as indicated by the several headings.

The mean temperatures for each section, the highest and lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observations. Of course the number of such records is smaller than the total number of stations.

*Temperature and precipitation by sections, March, 1910*

| Section. | Temperature—in degrees Fahrenheit. | | | | | | | Precipitation—in inches and hundredths. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Section average. | Departure from the normal. | Monthly extremes. | | | | | Section average. | Departure from the normal. | Greatest monthly. | | Least monthly. | |
| | | | Station. | Highest. | Date. | Station. | Lowest. | Date. | | | Station. | Amount. | Station. | Amount. |
| Alabama | 61.5 | + 4.6 | Lucy | 93 | 28 | Valley Head | 19 | 16 | 1.21 | − 4.97 | Daphne | 3.36 | 2 stations | 0.18 |
| Arizona | 59.3 | + 4.8 | Parker | 100 | 2† | Flagstaff | 3 | 27 | 0.50 | − 0.47 | Flagstaff | 2.65 | 6 stations | 0.00 |
| Arkansas | 60.7 | + 8.4 | 2 stations | 92 | 23† | Bergman | 22 | 2† | 1.39 | − 3.68 | Portland | 3.05 | Bee Branch | 0.30 |
| California | 54.7 | + 3.5 | San Jacinto | 102 | 4 | Macdoel | 6 | 25 | 3.22 | − 0.75 | Los Burros Mine | 10.88 | 3 stations | 0.00 |
| Colorado | 42.7 | + 9.0 | Cheyenne Wells | 89 | 17 | Gunnison | − 7 | 4 | 0.59 | − 0.73 | Corona | 3.14 | 4 stations | 0.00 |
| Florida | 64.9 | − 0.8 | Milligan | 94 | 27 | Johnstown | 25 | 16 | 1.94 | − 1.21 | Jupiter | 6.45 | Fenholloway | 0.34 |
| Georgia | 60.9 | + 3.7 | Bainbridge | 93 | 27 | La Fayette | 20 | 16 | 1.63 | − 3.31 | Douglas | 4.83 | Macon | 0.32 |
| Hawaii | | | | | | | | | | | | | | |
| Idaho | 43.1 | + 7.2 | Garnet | 81 | 18 | Camas | − 2 | 24 | 1.00 | − 0.92 | Grand Forks | 6.56 | Oakley | 0.00 |
| Illinois | 51.8 | +11.4 | 2 stations | 93 | 23 | Dakota | 11 | 8 | 0.25 | − 2.91 | Cairo | 1.39 | New Burnside | 0.00 |
| Indiana | 50.6 | + 9.5 | Rome | 91 | 23† | Judyville | 12 | 15 | 0.23 | − 3.66 | Moores Hill | 0.80 | Farmersburg | 0.00 |
| Iowa | 48.9 | +14.9 | Clarinda | 92 | 22 | Rock Rapids | 10 | 1 | 0.17 | − 1.75 | Ames | 1.32 | 8 stations | 0.00 |
| Kansas | 56.0 | +13.2 | Hugoton | 100 | 23 | 2 stations | 12 | 10 | 0.08 | − 1.45 | Columbus | 0.85 | 22 stations | 0.00 |
| Kentucky | 55.2 | + 9.0 | Bowling Green | 91 | 24 | Williamstown | 11 | 16 | 0.81 | − 4.20 | Cadiz | 3.35 | Owensboro | T. |
| Louisiana | 64.4 | + 3.3 | Liberty Hill | 99 | 28 | Tallulah | 24 | 16 | 1.19 | − 3.47 | New Orleans No. 2 | 3.85 | Opelousas | T. |
| Maryland and Delaware | 49.3 | + 6.7 | La Plata, Md. | 89 | 30 | Frostburg, Md. | 18 | 15 | 1.33 | − 2.30 | Seaford, Del. | 4.02 | Chewsville, Md. | 0.08 |
| Michigan | 40.6 | +11.6 | Lapeer | 89 | 27 | 2 stations | − 5 | 9† | 0.28 | − 1.94 | Owosso | 1.00 | 4 stations | 0.00 |
| Minnesota | 41.7 | +16.6 | Montevideo | 88 | 23 | Stephens Mine | − 4 | 2† | 0.27 | − 1.15 | Hallock | 1.80 | 2 stations | 0.00 |
| Mississippi | 62.6 | + 4.9 | 2 stations | 92 | 23† | 2 stations | 24 | 16† | 0.80 | − 5.11 | Pascagoula | 3.32 | Hickory Flat | 0.15 |
| Missouri | 55.8 | +12.3 | Warsaw | 96 | 23 | 3 stations | 16 | 15 | 0.66 | − 2.54 | Birchtree | 3.17 | Perryville | 0.00 |
| Montana | 42.9 | +12.7 | Miles City | 88 | 22 | Bowen | − 6 | 6 | 0.55 | − 0.48 | Saltese | 3.85 | 6 stations | 0.00 |
| Nebraska | 51.4 | +15.0 | Grant | 101 | 31 | Gordon | 11 | 10 | 0.31 | − 0.66 | Hay Springs | 1.80 | 19 stations | 0.00 |
| Nevada | 45.9 | + 7.1 | Las Vegas | 96 | 7 | Tecoma | 10 | 1 | 0.17 | − 1.09 | Mount Rose Ranch | 1.20 | 8 stations | 0.00 |
| New England* | 37.7 | + 6.5 | Bridgeport, Conn. | 83 | 29 | Bloomfield, Vt. | −17 | 18 | 1.44 | − 2.66 | Colchester, Conn. | 3.64 | Durham, N. H. | 0.14 |
| New Jersey | 44.5 | + 6.5 | Bergen Point | 88 | 29 | 2 stations | 10 | 18 | 1.22 | − 2.79 | Cape May City | 2.36 | Burlington | 0.29 |
| New Mexico | 50.1 | + 5.4 | Carlsbad | 93 | 6 | Hopewell | 0 | 30 | 0.26 | − 0.39 | Chama | 1.22 | 17 stations | 0.00 |
| New York | 38.8 | + 7.7 | Mount Hope | 90 | 29 | Nehasane | −17 | 18 | 1.00 | − 2.17 | Lake Placid Club | 4.06 | 2 stations | T. |
| North Carolina | 56.0 | + 5.7 | Kinston | 93 | 31 | Highlands | 13 | 15 | 1.63 | − 3.04 | Goldsboro | 3.35 | Marshall | 0.21 |
| North Dakota | 41.3 | +20.3 | Edmore | 90 | 23 | Broncho | − 7 | 1 | 0.97 | + 0.07 | Donnybrook | 2.37 | Edmore | 0.00 |
| Ohio | 48.2 | + 9.2 | 2 stations | 90 | 24 | 5 stations | 12 | 15 | 0.26 | − 3.26 | Lawshe | 0.78 | Frankfort | 0.00 |
| Oklahoma | 60.1 | + 8.8 | Sac and Fox Agency | 99 | 26 | Hurley | 18 | 10 | 0.43 | − 1.83 | Idabel | 1.49 | 6 stations | 0.00 |
| Oregon | 48.0 | + 5.5 | Glendale | 84 | 13 | Musick | 7 | 24 | 2.10 | − 2.54 | Welches | 9.20 | Tin Roof Cabin | 0.05 |
| Pennsylvania | 44.9 | + 7.7 | Mauch Chunk | 88 | 30 | Pocono Lake | 5 | 18 | 0.56 | − 3.17 | George School | 1.33 | Skidmore | 0.00 |
| Porto Rico | 73.2 | − 0.8 | 3 stations | 92 | 11† | Jayuya | 50 | 13 | 4.09 | + 0.21 | San Sebastián | 12.38 | Santa Isabel | 0.76 |
| South Carolina | 59.4 | + 3.9 | Walterboro | 93 | 31 | Clemson College | 22 | 16 | 1.38 | − 2.48 | Calhoun Falls | 5.22 | Georgetown | 0.27 |
| South Dakota | 47.2 | +18.0 | 3 stations | 91 | 21† | Redfield | 10 | 2 | 1.00 | − 0.56 | Deadwood | 3.90 | 2 stations | T. |
| Tennessee | 56.8 | + 7.6 | Dover | 93 | 4 | Rugby | 10 | 16 | 0.89 | − 4.98 | Yukon | 1.77 | 2 stations | 0.15 |
| Texas | 64.4 | + 4.6 | Barstow | 97 | 23† | Texline | 18 | 10 | 1.55 | − 0.47 | Kerrville | 6.17 | 2 stations | 0.00 |
| Utah | 46.1 | + 7.5 | St. George | 85 | 21 | Loa | 5 | 29 | 0.78 | − 1.02 | Mill Canyon | 2.90 | Lucin | 0.00 |
| Virginia | 52.2 | + 6.9 | Fredericksburg | 92 | 30 | Burkes Garden | 14 | 15 | 1.73 | − 2.36 | Williamsburg | 4.62 | Stephens City | T |
| Washington | 46.1 | + 5.0 | Kennewick | 88 | 15 | Clealum | 9 | 6 | 2.92 | − 0.41 | South Bend | 11.25 | Lyle | T. |
| West Virginia | 49.5 | + 6.4 | Logan | 90 | 24 | Pickens | 5 | 15 | 0.55 | − 3.55 | Princeton | 2.25 | 2 stations | T. |
| Wisconsin | 41.8 | +13.4 | 2 stations | 86 | 23† | Long Lake | − 7 | 9 | 0.14 | − 1.90 | Racine | 0.67 | 2 stations | 0.00 |
| Wyoming | 40.9 | +10.7 | Wyncote | 83 | 22 | Lake, Y. N. Park | − 7 | 30 | 0.58 | − 0.59 | Daniel | 1.90 | Lolabama Ranch | 0.00 |

*Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut. †Other dates also

TABLE 1.—*Climatological data for U. S. Weather Bureau stations, March, 1910.*

| Stations. | Elevation of instruments. | | | Pressure, in inches. | | | Temperature of the air, in degrees Fahrenheit. | | | | | | | | Mean wet thermometer. | Mean temperature of the dew-point. | Mean relative humidity, per cent. | Precipitation, in inches. | | | Wind. | | | | Clear days. | Partly cloudy days. | Cloudy days. | Average cloudiness during daylight, tenths. | Total snowfall. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometer above sea level, feet. | Thermometers above ground. | Anemometer above ground. | Actual, reduced to mean of 24 hours. | Sea level, reduced to mean of 24 hrs. | Departure from normal. | Mean max. + mean min. ÷ 2. | Departure from normal. | Maximum. | Date. | Mean maximum. | Minimum. | Date. | Mean minimum. | Greatest daily range. | | | | Total. | Departure from normal. | Days with .01, or more. | Total movement, miles. | Prevailing direction. | Maximum velocity. Miles per hour. | Maximum velocity. Direction. | Maximum velocity. Date. | | | | |
| *New England.* | | | | | | | 33.8 | + 6.0 | | | | | | | | | 72 | 1.45 | − 2.4 | | | | | | | | | 5.1 | |
| Eastport | 76 | 67 | 85 | 29.94 | 30.03 | + .10 | 34.4 | + 5.5 | 57 | 29 | 40 | 9 | 18 | 29 | 19 | 31 | 28 | 78 | 1.98 | − 2.3 | 11 | 9,521 | s. | 47 | e. | 7 | 9 | 10 | 12 | 6.2 | 4.8 |
| Greenville | 1,070 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Portland, Me | 103 | 81 | 117 | 29.92 | 30.05 | + .09 | 37.2 | + 5.2 | 74 | 25 | 44 | 11 | 18 | 30 | 32 | 32 | 27 | 70 | 1.62 | − 2.1 | 7 | 6,869 | s. | 32 | s. | 28 | 15 | 11 | 5 | 4.4 | T. |
| Concord | 288 | 70 | 79 | 29.73 | 30.06 | + .06 | 38.0 | + 6.5 | 73 | 25 | 48 | 11 | 18 | 28 | 38 | | | | 1.28 | − 2.1 | 6 | 4,505 | nw. | 34 | w. | 25 | 10 | 12 | 9 | 5.1 | 1.4 |
| Burlington | 404 | 11 | 48 | 29.57 | 30.03 | + .03 | 35.4 | + 8.1 | 68 | 29 | 44 | 6 | 18 | 27 | 35 | | | | 0.51 | − 1.3 | 7 | 9,561 | s. | 66 | s. | 28 | 10 | 12 | 9 | 5.3 | 0.2 |
| Northfield | 876 | 16 | 70 | 29.07 | 30.04 | + .04 | 34.0 | + 7.8 | 69 | 29 | 44 | − 3 | 18 | 24 | 39 | 30 | 25 | 72 | 0.60 | − 2.2 | 6 | 6,914 | s. | 34 | sw. | 25 | 10 | 10 | 11 | 5.5 | T. |
| Boston | 125 | 115 | 188 | 29.92 | 30.07 | + .10 | 42.0 | + 7.0 | 78 | 25 | 50 | 17 | 18 | 34 | 28 | 36 | 30 | 66 | 1.25 | − 2.8 | 7 | 7,957 | w. | 33 | sw. | 20 | 11 | 9 | 11 | 5.5 | 0.2 |
| Nantucket | 12 | 14 | 90 | 30.05 | 30.06 | + .08 | 39.2 | + 3.4 | 68 | 29 | 45 | 24 | 18 | 33 | 28 | 36 | 33 | 81 | 2.74 | − 1.2 | 11 | 11,170 | sw. | 47 | sw. | 14 | 15 | 8 | 8 | 5.0 | 2.8 |
| Block Island | 26 | 11 | 46 | 30.04 | 30.07 | + .09 | 39.0 | + 3.1 | 68 | 29 | 44 | 21 | 18 | 34 | 28 | 36 | 33 | 83 | 1.58 | − 2.8 | 9 | 11,698 | sw. | 47 | w. | 14 | 16 | 7 | 8 | 4.4 | 2.2 |
| Narragansett | | 9 | | | | | 40.2 | + 5.2 | 82 | 29 | 50 | 11 | 18 | 31 | 53 | | | | 1.52 | | 9 | | sw. | | | | 19 | 7 | 5 | | 2.5 |
| Providence | 160 | 141 | 165 | 29.90 | 30.08 | + .10 | 41.6 | + 5.9 | 79 | 25 | 51 | 16 | 18 | 32 | 31 | 35 | 29 | 65 | 1.32 | − 3.3 | 9 | 7,670 | nw. | 33 | w. | 7 | 12 | 12 | 7 | 4.9 | 0.5 |
| Hartford | 159 | 122 | 140 | 29.90 | 30.08 | + .09 | 42.3 | + 7.3 | 78 | 29 | 52 | 18 | 18 | 33 | 33 | 36 | 30 | 68 | 0.95 | − 3.4 | 9 | 6,256 | s. | 29 | s. | 19 | 12 | 14 | 5 | 4.8 | 0.2 |
| New Haven | 106 | 116 | 155 | 29.96 | 30.08 | + .09 | 41.8 | + 6.4 | 81 | 29 | 51 | 19 | 18 | 33 | 42 | 36 | 29 | 65 | 1.16 | − 3.3 | 7 | 6,598 | s. | 31 | w. | 14 | 11 | 12 | 8 | 4.6 | 1.0 |
| *Mid. Atlantic States.* | | | | | | | 47.3 | + 8.0 | | | | | | | | | 69 | 0.93 | − 2.7 | | | | | | | | | 4.1 | |
| Albany | 97 | 102 | 115 | 29.96 | 30.07 | + .06 | 40.9 | + 8.8 | 76 | 29 | 50 | 14 | 18 | 32 | 30 | 35 | 28 | 65 | 0.52 | − 2.2 | 5 | 6,238 | s. | 36 | se. | 28 | 15 | 10 | 6 | 4.7 | 0.1 |
| Binghamton | 871 | 78 | 88 | 29.12 | 30.07 | + .05 | 41.6 | + 9.6 | 79 | 29 | 53 | 16 | 18 | 30 | 40 | | | | 0.68 | − 2.0 | 6 | 4,360 | w. | 26 | w. | 14 | 15 | 4 | 12 | 4.7 | 0.4 |
| New York | 314 | 108 | 350 | 29.74 | 30.08 | + .08 | 44.7 | + 7.2 | 78 | 30 | 52 | 24 | 18 | 37 | 29 | 39 | 33 | 68 | 0.86 | − 3.2 | 6 | 7,984 | nw. | 44 | nw. | 20 | 13 | 13 | 5 | 4.5 | 0.4 |
| Harrisburg | 374 | 94 | 104 | 29.69 | 30.10 | + .07 | 47.3 | + 9.5 | 83 | 30 | 57 | 24 | 15 | 37 | 31 | 39 | 33 | 64 | 0.25 | − 2.9 | 5 | 4,804 | e. | 40 | nw | 13 | 10 | 13 | 8 | 5.0 | T. |
| Philadelphia | 117 | 116 | 184 | 29.98 | 30.11 | + .09 | 48.0 | + 8.0 | 83 | 30 | 57 | 27 | 18 | 39 | 31 | 41 | 35 | 66 | 0.38 | − 3.1 | 7 | 6,818 | sw. | 29 | nw. | 13 | 15 | 8 | 8 | 4.7 | 0.3 |
| Scranton | 805 | 111 | 119 | 29.20 | 30.08 | + .06 | 44.2 | + 9.3 | 83 | 30 | 55 | 18 | 18 | 33 | 36 | 37 | 32 | 69 | 0.77 | − 2.4 | 8 | 5,047 | sw. | 32 | nw. | 7 | 13 | 10 | 8 | 4.6 | 2.2 |
| Atlantic City | 52 | 37 | 48 | 30.05 | 30.11 | + .09 | 43.4 | + 4.6 | 72 | 29 | 50 | 26 | 16 | 37 | 25 | 39 | 35 | 78 | 1.27 | − 2.5 | 4 | 5,860 | sw. | 32 | ne. | 12 | 11 | 10 | 10 | 5.0 | 2.7 |
| Cape May | 17 | 9 | 56 | 30.10 | 30.12 | + .11 | 43.8 | + 3.0 | 68 | 29 | 50 | 26 | 11 | 37 | 21 | 40 | 37 | 83 | 2.36 | − 1.4 | 7 | 5,913 | s. | 30 | ne. | 12 | 12 | 12 | 7 | 5.1 | 4.1 |
| Baltimore | 123 | 100 | 113 | 29.97 | 30.10 | + .07 | 49.8 | + 7.9 | 83 | 25 | 59 | 28 | 15 | 41 | 31 | 42 | 36 | 65 | 0.46 | − 3.4 | 5 | 4,711 | ne. | 28 | nw. | 13 | 12 | 11 | 8 | 4.5 | 2.1 |
| Washington | 112 | 62 | 85 | 29.97 | 30.10 | + .06 | 51.2 | + 9.0 | 86 | 30 | 62 | 26 | 15 | 40 | 34 | 43 | 35 | 62 | 0.57 | − 3.3 | 5 | 5,080 | nw. | 39 | nw. | 13 | 17 | 9 | 5 | 3.8 | 3.2 |
| Cape Henry | 18 | 9 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lynchburg | 681 | 83 | 88 | 29.35 | 30.10 | + .05 | 55.0 | + 9.6 | 88 | 28 | 68 | 28 | 13 | 42 | 43 | 46 | 40 | 66 | 0.36 | − 3.4 | 3 | 2,958 | nw. | 24 | nw. | 14 | 15 | 12 | 4 | 4.0 | 1.2 |
| Mount Weather | 1,725 | 10 | 54 | 28.23 | 30.07 | + .02 | 48.0 | +11.2 | 81 | 30 | 57 | 19 | 15 | 39 | 36 | 42 | 37 | 71 | 0.43 | − 3.6 | 5 | 12,057 | nw. | 60 | nw. | 7 | 19 | 9 | 3 | 3.5 | 2.2 |
| Norfolk | 91 | 102 | 111 | 30.01 | 30.11 | + .08 | 55.0 | + 7.3 | 90 | 30 | 64 | 32 | 12 | 46 | 31 | 48 | 43 | 73 | 3.43 | − 0.8 | 7 | 7,132 | s. | 30 | ne. | 17 | 20 | 4 | 7 | 3.6 | 6.0 |
| Richmond | 144 | 189 | 197 | 29.95 | 30.11 | + .07 | 53.9 | + 7.0 | 91 | 30 | 66 | 24 | 16 | 42 | 40 | | | | 1.42 | − 2.3 | 6 | 5,626 | s. | 33 | sw. | 13 | 14 | 12 | 5 | 3.9 | 5.9 |
| Wytheville | 2,293 | 40 | 47 | 27.72 | 30.12 | + .07 | 50.0 | + 7.7 | 80 | 29 | 62 | 22 | 15 | 37 | 38 | 43 | 39 | 77 | 0.91 | − 3.5 | 7 | 4,041 | w. | 27 | nw. | 14 | 20 | 8 | 3 | 3.1 | 0.7 |
| *S. Atlantic States.* | | | | | | | 59.2 | + 5.4 | | | | | | | | | 73 | 1.26 | − 3.1 | | | | | | | | | 3.4 | |
| Asheville | 2,255 | 53 | 75 | 27.76 | 30.13 | + .07 | 52.9 | + 8.0 | 82 | 28 | 66 | 21 | 15 | 40 | 37 | 45 | 41 | 74 | 0.72 | − 4.4 | 5 | 5,063 | se. | 34 | nw. | 7 | 13 | 12 | 6 | 3.9 | |
| Charlotte | 773 | 68 | 76 | 29.28 | 30.12 | + .07 | 57.8 | + 7.0 | 84 | 31 | 68 | 28 | 15 | 47 | 28 | 49 | 42 | 64 | 0.86 | − 3.7 | 5 | 5,249 | s. | 22 | nw. | 7 | 20 | 5 | 6 | 3.2 | |
| Hatteras | 11 | 12 | 47 | 30.08 | 30.10 | + .06 | 57.2 | + 5.8 | 81 | 30 | 64 | 34 | 15 | 51 | 24 | 53 | 52 | 88 | 2.16 | − 3.3 | 7 | 10,282 | sw. | 44 | nw. | 13 | 21 | 2 | 8 | 3.7 | T. |
| Manteo | 12 | 12 | 46 | | | | 54.0 | | 88 | 30 | 63 | 33 | 16 | 45 | 55 | | | | 1.96 | − 3.1 | 5 | | s. | | | | 24 | 1 | 6 | | |
| Raleigh | 376 | 103 | 110 | 29.70 | 30.11 | + .06 | 57.6 | + 7.2 | 88 | 31 | 68 | 29 | 15 | 47 | 33 | 48 | 40 | 62 | 1.01 | − 3.2 | 6 | 6,204 | sw. | 26 | w. | 13 | 17 | 9 | 5 | 3.3 | |
| Wilmington | 78 | 81 | 91 | 30.04 | 30.12 | + .07 | 58.4 | + 4.7 | 86 | 30 | 68 | 31 | 16 | 48 | 28 | 51 | 48 | 78 | 1.02 | − 2.6 | 4 | 5,645 | sw. | 25 | ne. | 18 | 18 | 8 | 5 | 3.4 | |
| Charleston | 48 | 14 | 92 | 30.06 | 30.11 | + .05 | 60.5 | + 3.3 | 82 | 31 | 69 | 35 | 15 | 52 | 25 | 54 | 51 | 82 | 0.63 | − 3.1 | 2 | 6,376 | sw. | 36 | n. | 15 | 18 | 9 | 4 | 3.1 | |
| Columbia, S. C. | 351 | 41 | 57 | 29.73 | 30.11 | + .05 | 59.8 | + 5.8 | 87 | 30 | 71 | 28 | 16 | 48 | 32 | 50 | 43 | 63 | 0.76 | − 2.9 | 4 | 4,670 | s. | 27 | ne. | 14 | 17 | 9 | 5 | 4.0 | |
| Augusta | 180 | 89 | 97 | 29.92 | 30.11 | + .05 | 61.0 | + 5.1 | 86 | 31 | 73 | 30 | 16 | 49 | 34 | 52 | 46 | 69 | 0.69 | − 4.2 | 3 | 3,864 | sc. | 23 | w. | 7 | 16 | 5 | 10 | 4.1 | |
| Savannah | 65 | 150 | 194 | 30.06 | 30.13 | + .07 | 62.4 | + 4.1 | 85 | 31 | 72 | 34 | 16 | 52 | 30 | 54 | 49 | 74 | 2.16 | − 1.5 | 3 | 7,857 | s. | 30 | nw. | 7 | 24 | 3 | 4 | 2.3 | |
| Jacksonville | 43 | 96 | 129 | 30.07 | 30.12 | + .06 | 64.6 | + 2.7 | 83 | 9 | 74 | 38 | 16 | 55 | 27 | 56 | 53 | 78 | 1.89 | − 1.6 | 5 | 5,600 | ne. | 32 | nw. | 11 | 23 | 4 | 4 | 2.5 | |
| *Florida Peninsula.* | | | | | | | 68.5 | − 0.9 | | | | | | | | | 72 | 2.46 | 0.0 | | | | | | | | | 2.9 | |
| Jupiter | 28 | 10 | 46 | 30.05 | 30.06 | + .03 | 68.0 | − 1.4 | 81 | 7 | 76 | 53 | 14 | 60 | 24 | 62 | 58 | 77 | 0.45 | + 3.3 | 8 | 7,667 | ne. | 30 | ne. | 22 | 12 | 16 | 3 | 4.0 | |
| Key West | 22 | 10 | 53 | 30.05 | 30.07 | + .02 | 71.3 | − 1.5 | 81 | 2 | 76 | 61 | 16 | 66 | 14 | 64 | 60 | 74 | 0.35 | − 1.1 | 2 | 7,560 | ne. | 26 | e. | 29 | 24 | 7 | 0 | 2.5 | |
| Sand Key | 25 | 41 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tampa | 35 | 79 | 96 | 30.08 | 30.12 | + .05 | 66.2 | + 0.3 | 83 | 28 | 76 | 41 | 16 | 56 | 26 | 59 | 57 | 83 | 0.58 | − 2.2 | 5 | 5,560 | n. | 25 | ne. | 5 | 24 | 4 | 3 | 2.2 | |
| | | | | | | | 63.3 | + 6.0 | | | | | | | | | 64 | 1.47 | − 4.4 | | | | | | | | | 3.0 | |
| *East Gulf States.* | | | | | | | 60.6 | + 5.2 | 85 | 27 | 71 | 28 | 15 | 50 | 28 | 50 | 42 | 56 | 2.03 | − 3.8 | 4 | 7,832 | w. | 38 | nw. | 7 | 16 | 9 | 6 | 3.8 | |
| Atlanta | 1,174 | 190 | 216 | 28.89 | 30.13 | + .07 | 57.8 | + 7.0 | 84 | 31 | 68 | 28 | 15 | 47 | 28 | 49 | 42 | 64 | 0.86 | − 3.7 | 5 | 5,249 | s. | 22 | nw. | 7 | 20 | 5 | 6 | 3.2 | |
| Macon | 370 | 78 | 87 | 29.73 | 30.12 | + .08 | 61.1 | + 6.3 | 86 | 26 | 74 | 32 | 16 | 49 | 36 | | | | 0.32 | − 5.2 | 2 | 3,855 | nw. | 23 | nw. | 7 | 23 | 3 | 5 | 2.6 | |
| Thomasville | 273 | 8 | 57 | 29.83 | 30.13 | + .07 | 63.0 | + 2.8 | 90 | 27 | 76 | 30 | 16 | 50 | 38 | 53 | 49 | 74 | 3.02 | − 2.1 | 3 | 3,254 | s. | 18 | nw. | 21 | 23 | 1 | 7 | 2.5 | |
| Pensacola | 56 | 140 | 183 | 30.07 | 30.13 | + .07 | 64.4 | + 3.3 | 87 | 27 | 72 | 39 | 16 | 57 | 22 | | | | 1.82 | − 3.5 | 4 | 8,012 | sw. | 39 | e. | 1 | 20 | 6 | 5 | 3.0 | |
| Anniston | 741 | 9 | 57 | 29.36 | 30.16 | + .10 | 60.4 | + 7.9 | 86 | 27 | 73 | 25 | 16 | 48 | 37 | | | | 1.09 | − 4.7 | 4 | 3,458 | n. | 22 | n. | 14 | 20 | 5 | 6 | 3.3 | |
| Birmingham | 700 | 11 | 48 | 29.38 | 30.15 | + .09 | 62.9 | + 7.7 | 88 | 27 | 74 | 30 | 15 | 52 | 33 | 51 | 43 | 57 | 0.55 | − 5.2 | 3 | 4,181 | n. | 24 | se. | 29 | 19 | 10 | 2 | 2.9 | |
| Mobile | 57 | 98 | 106 | 30.06 | 30.12 | + .06 | 65.1 | + 6.0 | 91 | 27 | 74 | 37 | 16 | 56 | 28 | 56 | 52 | 73 | 1.93 | − 5.2 | 5 | 4,833 | se. | 24 | s. | 29 | 11 | 11 | 9 | 4.7 | |
| Montgomery | 223 | 100 | 112 | 29.88 | 30.13 | + .07 | 63.6 | + 5.7 | 89 | 27 | 75 | 34 | 16 | 52 | 32 | 53 | 45 | 59 | 0.85 | − 5.5 | 3 | 3,313 | se. | 28 | nw. | 10 | 20 | 5 | 6 | 2.9 | |
| Meridian | 375 | 84 | 93 | 29.73 | 30.13 | + .08 | 62.1 | + 5.8 | 89 | 28 | 76 | 28 | 16 | 49 | 38 | 53 | 47 | 69 | 0.86 | − 4.8 | 3 | 2,962 | n. | 22 | sw. | 10 | 17 | 11 | 3 | 3.4 | |
| Vicksburg | 247 | 62 | 74 | 29.85 | 30.13 | + .09 | 65.6 | + 7.4 | 87 | 28 | 76 | 37 | 16 | 55 | 30 | 54 | 45 | 56 | 0.53 | − 5.7 | 1 | 4,260 | s. | 22 | se. | 29 | 20 | 3 | 8 | 3.1 | |
| New Orleans | 51 | 90 | 121 | 30.07 | 30.13 | + .09 | 67.4 | + 5.4 | 84 | 23 | 77 | 42 | 16 | 58 | 25 | 58 | 52 | 65 | 3.15 | − 2.2 | 2 | 5,282 | w. | 27 | se. | 29 | 26 | 5 | 0 | 1.3 | |
| | | | | | | | 64.4 | + 7.1 | | | | | | | | | 66 | 1.56 | − 1.6 | | | | | | | | | 3.4 | |
| *West Gulf States.* | | | | | | | 64.7 | + 6.5 | 88 | 23 | 76 | 39 | 11 | 54 | 30 | 55 | 48 | 65 | 2.84 | − 1.7 | 4 | 4,470 | se. | 25 | nw. | 10 | 20 | 4 | 7 | 3.2 | |
| Shreveport | 249 | 77 | 84 | 29.85 | 30.13 | + .11 | 58.6 | +11.3 | 86 | 22 | 71 | 29 | 15 | 46 | 36 | | | | 1.86 | − 2.0 | 5 | 5,363 | s. | 32 | s. | 28 | 20 | 6 | 5 | 3.3 | |
| Bentonville | 1,303 | 11 | 44 | 28.71 | 30.08 | + .07 | 61.9 | +10.6 | 87 | 22 | 74 | 36 | 11 | 50 | 41 | 50 | 40 | 52 | 0.87 | − 2.8 | 7 | 5,776 | e. | 34 | e. | 9 | 16 | 10 | 5 | 3.5 | |
| Fort Smith | 457 | 79 | 94 | 29.61 | 30.09 | + .08 | 62.3 | + 9.6 | 87 | 23 | 73 | 37 | 10 | 51 | 38 | 52 | 46 | 61 | 0.87 | − 4.1 | 4 | 6,663 | sw. | 32 | s. | 29 | 19 | 7 | 5 | 3.5 | |
| Little Rock | 357 | 139 | 147 | 29.74 | 30.12 | + .09 | 69.8 | | 93 | 1 | 81 | 46 | 3 | 59 | 36 | | | | 0.23 | | 4 | | s. | | | | | | | | |
| Brownsville | 57 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Corpus Christi | 20 | 69 | 77 | 30.08 | 30.10 | + .12 | 67.5 | + 3.1 | 87 | 1 | 74 | 48 | 13 | 61 | 27 | 62 | 59 | 80 | 2.06 | + 0.2 | 1 | 11,667 | se. | 42 | se. | 29 | 20 | 6 | 5 | 3.6 | |
| Fort Worth | 670 | 106 | 114 | 29.37 | 30.08 | + .10 | 64.4 | + 7.8 | 90 | 22 | 76 | 37 | 11 | 52 | 39 | | | | 1.02 | − 0.7 | 5 | 7,794 | s. | 45 | se. | 28 | 20 | 4 | 7 | 3.2 | |
| Galveston | 54 | 106 | 112 | 30.09 | 30.14 | + .13 | 66.0 | + 3.7 | 80 | 14 | 71 | 49 | 11 | 61 | 23 | 61 | 59 | 86 | 1.48 | − 1.4 | 2 | 7,195 | se. | 38 | se. | 29 | 19 | 9 | 3 | 2.8 | |
| Palestine | 510 | 73 | 79 | 29.57 | 30.11 | + .11 | 65.6 | + 7.1 | 88 | 22 | 76 | 42 | 11 | 55 | 27 | 55 | 47 | 61 | 1.92 | − 1.6 | 5 | 6,203 | s. | 30 | s. | 29 | 18 | 7 | 6 | 3.6 | |
| San Antonio | 701 | 80 | 91 | 29.35 | 30.08 | + .10 | 67.8 | + 5.7 | 86 | 2 | 80 | 43 | 11 | 56 | 35 | 56 | 48 | 60 | 0.42 | − 1.3 | 3 | 5,469 | se. | 28 | n. | 10 | 14 | 11 | 6 | 4.0 | |
| Taylor | 583 | 55 | 63 | 29.48 | 30.07 | + .08 | 65.0 | + 5.3 | 88 | 22 | 78 | 37 | 11 | 52 | 36 | | | | 2.31 | − 0.3 | 6 | 7,089 | s. | 37 | s. | 29 | 18 | 8 | 5 | 3.4 | |
| | | | | | | | 54.6 | +10.3 | | | | | | | | | 61 | 0.47 | − 4.0 | | | | | | | | | 4.2 | |
| *Ohio Val. and Tenn.* | | | | | | | 59.7 | + 8.4 | 86 | 25 | 72 | 27 | 15 | 48 | 34 | 49 | 40 | 57 | 0.93 | − 5.3 | 4 | 5,207 | w. | 35 | nw. | 1 | 14 | 9 | 8 | 4.4 | |
| Chattanooga | 762 | 189 | 213 | 29.33 | 30.14 | + .08 | 57.3 | + 9.1 | 84 | 24 | 69 | 25 | 15 | 46 | 33 | 48 | 41 | 63 | 0.72 | − 4.9 | 3 | 3,235 | sw. | 23 | nw. | 14 | 12 | 15 | 4 | 4.1 | |
| Knoxville | 996 | 93 | 100 | 29.06 | 30.12 | + .06 | 62.0 | + 9.9 | 86 | 24 | 71 | 34 | 15 | 53 | 30 | 52 | 43 | 56 | 1.14 | − 4.6 | 5 | 6,225 | sw. | 32 | nw. | 30 | 18 | 4 | 9 | 3.6 | |
| Memphis | 399 | 76 | 97 | 29.72 | 30.15 | + .11 | 59.2 | +10.0 | 88 | 24 | 71 | 26 | 15 | 47 | 34 | 49 | 42 | 61 | 0.85 | − 4.6 | 7 | 5,792 | sw. | 40 | sw. | 22 | 17 | 6 | 8 | 3.9 | |
| Nashville | 546 | 168 | 191 | 29.55 | 30.14 | + .09 | 54.4 | +11.0 | 85 | 24 | 65 | 18 | 15 | 44 | 35 | | | | 0.46 | − 4.3 | 3 | 7,516 | sw. | 35 | w. | 13 | 10 | 11 | 10 | 5.3 | T. |
| Lexington | 989 | 75 | 102 | 29.05 | 30.13 | + .08 | 57.0 | +11.7 | 88 | 24 | 68 | 23 | 15 | 46 | 34 | 46 | 37 | 55 | 0.12 | − 4.2 | 1 | 5,584 | sw. | 32 | nw. | 6 | 14 | 10 | 7 | 3.9 | T. |
| Louisville | 525 | 111 | 132 | 29.54 | 30.12 | + .07 | 57.2 | +12.6 | 86 | 24 | 67 | 24 | 15 | 47 | 27 | | | | 0.01 | − 4.6 | 1 | 5,162 | s. | 25 | s. | 30 | 15 | 14 | 2 | 3.7 | |
| Evansville | 431 | 72 | 82 | 29.64 | 30.11 | + .07 | 51.9 | +12.3 | 84 | 24 | 62 | 19 | 15 | 41 | 34 | 43 | 34 | 58 | 0.07 | − 3.9 | 2 | 7,090 | s. | 36 | nw. | 13 | 9 | 15 | 7 | 4.8 | T. |
| Indianapolis | 822 | 154 | 164 | 29.21 | 30.10 | + .06 | 54.0 | +11.2 | 87 | 24 | 65 | 21 | 15 | 43 | 37 | 44 | 36 | 55 | 0.39 | − 3.2 | 2 | 4,466 | sw. | 27 | nw. | 13 | 16 | 8 | 7 | 3.9 | T. |
| Cincinnati | 628 | 152 | 160 | 29.43 | 30.12 | + .07 | 50.1 | +10.9 | 84 | 24 | 61 | 18 | 15 | 39 | 35 | 42 | 33 | 59 | 0.28 | − 2.9 | 1 | 7,486 | sw. | 48 | nw. | 13 | 13 | 13 | 5 | 4.0 | T. |
| Columbus | 824 | 173 | 222 | 29.21 | 30.10 | + .06 | 48.8 | + 9.3 | 83 | 24 | 59 | 21 | 15 | 39 | 32 | 42 | 36 | 64 | 0.37 | − 2.6 | 7 | 7,015 | nw. | 47 | nw. | 13 | 13 | 11 | 7 | 4.6 | 0.7 |
| Pittsburg | 842 | 336 | 352 | 29.17 | 30.09 | + .05 | 50.9 | + 8.6 | 86 | 24 | 63 | 22 | 15 | 38 | 41 | 42 | 35 | 65 | 0.10 | − 3.7 | 4 | 3,604 | s. | 35 | nw. | 6 | 10 | 15 | 6 | 5.1 | 0.1 |
| Parkersburg | 638 | 77 | 84 | 29.45 | 30.11 | + .06 | 47.5 | + 8.4 | 81 | 29 | 62 | 18 | 15 | 34 | 49 | 40 | 36 | 79 | 0.48 | − 3.4 | 9 | 2,466 | w. | 19 | w. | 20 | 14 | 12 | 5 | 3.9 | 0.6 |
| Elkins | 1,940 | 41 | 50 | 28.04 | 30.14 | + .09 | 42.0 | + 2.7 | | | | | | | | | 68 | 0.60 | − 2.0 | | | | | | | | | 4.4 | |
| *Lower Lake Region.* | | | | | | | 39.7 | + 8.5 | 72 | 29 | 48 | 15 | 15 | 32 | 32 | 35 | 32 | 77 | 0.68 | − 1.9 | 6 | 10,457 | sw. | 47 | nw. | 13 | 12 | 11 | 8 | 4.8 | 3.2 |
| Buffalo | 767 | 178 | 206 | 29.20 | 30.05 | + .03 | 35.6 | + 7.9 | 72 | 24 | 45 | 4 | 17 | 26 | 44 | | | | 1.40 | − 1.4 | 10 | 9,376 | sw. | 48 | sw. | 7 | 10 | 12 | 9 | 5.4 | 5.5 |
| Canton | 448 | 10 | 71 | 29.53 | 30.02 | | 38.8 | + 7.4 | 78 | 24 | 47 | 14 | 17 | 31 | 39 | 34 | 30 | 72 | 0.92 | − 1.9 | 11 | 7,805 | s. | 31 | nw. | 14 | 13 | 9 | 9 | 4.8 | 4.3 |
| Oswego | 335 | 76 | 91 | 29.66 | 30.04 | + .03 | 41.4 | +10.1 | 81 | 24 | 50 | 16 | 14 | 33 | 41 | 35 | 29 | 65 | 0.73 | − 2.2 | 7 | 6,646 | w. | 45 | w. | 31 | 15 | 7 | 9 | 4.6 | 3.4 |
| Rochester | 523 | 86 | 102 | 29.47 | 30.06 | + .04 | 41.2 | + 9.8 | 78 | 24 | 50 | 15 | 18 | 32 | 35 | | | | 0.63 | − 1.8 | 9 | 8,822 | s. | 46 | s. | 6 | 12 | 8 | 11 | 5.2 | 4.8 |
| Syracuse | 597 | 97 | 113 | 29.40 | 30.05 | + .03 | 43.0 | + 9.9 | 82 | 24 | 51 | 19 | 15 | 35 | 32 | 37 | 31 | 67 | 0.53 | − 2.1 | 7 | 7,466 | w. | 31 | nw. | 13 | 10 | 16 | 5 | 4.5 | 1.4 |
| Erie | 714 | 92 | 102 | 29.28 | 30.07 | + .05 | 41.2 | + 9.8 | 78 | 24 | 50 | 15 | 18 | 32 | 35 | | | | 0.41 | − 2.4 | 6 | 10,417 | se. | 46 | w. | 13 | 12 | 14 | 5 | 4.5 | 2.7 |
| Cleveland | 762 | 190 | 201 | 29.24 | 30.08 | + .05 | 44.6 | +10.4 | 83 | 24 | 53 | 22 | 14 | 36 | 33 | 39 | 33 | 68 | 0.28 | − 2.3 | 2 | 6,171 | sw. | 36 | nw. | 13 | 15 | 11 | 5 | 3.3 | 0.1 |
| Sandusky | 629 | 62 | 70 | 29.38 | 30.07 | + .04 | 45.6 | +10.4 | 85 | 24 | 54 | 21 | 15 | 37 | 37 | | | | 0.05 | − 2.2 | 2 | 11,209 | sw. | 48 | w. | 6 | 22 | 8 | 1 | 2.7 | 0.1 |
| Toledo | 628 | 207 | 246 | 29.38 | 30.08 | + .05 | 46.6 | +11.8 | 83 | 24 | 57 | 18 | 15 | 37 | 37 | 39 | 32 | 63 | 0.38 | − 2.0 | 4 | 10,645 | e. | 50 | w. | 6 | 14 | 11 | 6 | 4.1 | 0.1 |
| Detroit | 730 | 218 | 258 | 29.26 | 30.07 | + .04 | 44.0 | +11.1 | 81 | 24 | 54 | 17 | 15 | 34 | 40 | 37 | 30 | 66 | | | | | | | | | | | | |

TABLE I.—*Climatological data for U. S. Weather Bureau stations, March, 1910*—Continued.

| Stations. | Elevation of instruments. | | | Pressure, in inches. | | | Temperature of the air, in degrees Fahrenheit. | | | | | | | | | | Mean wet thermometer. | Mean temperature of the dew-point. | Mean relative humidity, per cent. | Precipitation, in inches. | | | Wind. | | | | | Clear days. | Partly cloudy days. | Cloudy days. | Average cloudiness during daylight, tenths. | Total snowfall. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometer above sea level, feet. | Thermometers above ground. | Anemometer above ground. | Actual, reduced to mean of 24 hours. | Sea level, reduced to mean of 24 hrs. | Departure from normal. | Mean max. + mean min. ÷ 2 | Departure from normal. | Maximum. | Date. | Mean maximum. | Minimum. | Date. | Mean minimum. | Greatest daily range. | | | | | Total. | Departure from normal. | Days with .01, or more. | Total movement, miles. | Prevailing direction. | Maximum velocity. Miles per hour. | Maximum velocity. Direction. | Maximum velocity. Date. | | | | | |
| *Upper Lake Region.* | | | | | | | **39.8** | **+12.6** | | | | | | | | | | | **71** | **0.28** | **− 1.9** | | | | | | | | | **4.7** | |
| Alpena | 609 | 13 | 92 | 29.34 | 30.02 | − .01 | 37.4 | +12.4 | 81 | 29 | 47 | 9 | 15 | 28 | 39 | 32 | 26 | 73 | 0.44 | − 1.6 | 8 | 8,933 | w. | 40 | nw. | 13 | 13 | 6 | 12 | 5.0 | 0.8 |
| Escanaba | 612 | 40 | 82 | 29.32 | 30.01 | − .03 | 35.6 | +12.1 | 75 | 24 | 45 | 12 | 15 | 26 | 36 | 30 | 26 | 74 | 0.27 | − 1.7 | 6 | 7,526 | s. | 44 | w. | 24 | 15 | 8 | 8 | 4.5 | 2.0 |
| Grand Haven | 632 | 54 | 92 | 29.35 | 30.04 | + .01 | 41.8 | +11.0 | 72 | 27 | 50 | 17 | 15 | 33 | 35 | 37 | 32 | 73 | 0.21 | − 2.3 | 5 | 9,488 | s. | 38 | s. | 30 | 18 | 8 | 5 | 3.7 | 0.4 |
| Grand Rapids | 707 | 127 | 162 | 29.28 | 30.06 | + .03 | 45.0 | +12.0 | 82 | 29 | 55 | 17 | 15 | 35 | 35 | 38 | 32 | 67 | 0.08 | − 2.4 | 3 | 9,184 | sw. | 44 | w. | 6 | 14 | 8 | 9 | 5.0 | T. |
| Houghton | 668 | 66 | 74 | 29.22 | 29.96 | − .08 | 36.4 | +12.6 | 78 | 27 | 47 | 7 | 10 | 26 | 43 | ..... | ..... | ..... | 0.49 | − 1.6 | 9 | 6,372 | w. | 38 | w. | 28 | 11 | 18 | 2 | 4.5 | 1.3 |
| Marquette | 734 | 77 | 116 | 29.17 | 29.98 | − .06 | 38.2 | +14.5 | 81 | 29 | 49 | 15 | 14 | 28 | 37 | 34 | 30 | 75 | 0.21 | − 1.9 | 7 | 9,493 | w. | 46 | sw. | 24 | 5 | 21 | 5 | 5.7 | 1.0 |
| Port Huron | 638 | 70 | 120 | 29.34 | 30.05 | + .02 | 41.8 | +12.2 | 77 | 28 | 52 | 17 | 15 | 32 | 38 | 35 | 30 | 70 | 0.41 | − 2.0 | 4 | 8,703 | sw. | 45 | nw. | 13 | 9 | 10 | 12 | 5.5 | 0.2 |
| Sault Sainte Marie | 614 | 11 | 61 | 29.30 | 30.02 | − .01 | 30.4 | + 9.1 | 64 | 24 | 41 | − 1 | 2 | 20 | 36 | 27 | 24 | 79 | 0.30 | − 1.6 | 7 | 7,564 | w. | 45 | nw. | 7 | 11 | 4 | 16 | 5.9 | 1.3 |
| Chicago | 823 | 140 | 310 | 29.17 | 30.07 | + .04 | 48.6 | +14.2 | 81 | 27 | 57 | 26 | 15 | 40 | 36 | 42 | 36 | 66 | 0.29 | − 2.3 | 3 | 10,921 | sw. | 50 | w. | 6 | 18 | 11 | 2 | 3.2 | T. |
| Milwaukee | 681 | 122 | 139 | 29.31 | 30.06 | + .06 | 44.2 | +13.3 | 81 | 29 | 53 | 20 | 7 | 36 | 38 | 38 | 32 | 68 | 0.05 | − 2.6 | 2 | 7,955 | w. | 42 | sw. | 30 | 19 | 8 | 4 | 3.2 | T. |
| Green Bay | 617 | 49 | 86 | 29.33 | 30.00 | − .04 | 41.4 | +14.6 | 82 | 29 | 52 | 16 | 8 | 31 | 36 | 35 | 30 | 71 | 0.19 | − 2.2 | 4 | 8,376 | sw. | 47 | w. | 6 | 12 | 13 | 6 | 5.2 | 1.2 |
| Duluth | 1,133 | 11 | 47 | 28.73 | 29.98 | + .08 | 37.4 | +13.3 | 70 | 28 | 48 | 11 | 9 | 27 | 34 | 31 | 25 | 70 | 0.44 | − 1.1 | 5 | 10,771 | ne. | 56 | sw. | 21 | 11 | 15 | 5 | 4.6 | 3.1 |
| *North Dakota.* | | | | | | | **41.5** | **+22.6** | | | | | | | | | | | **73** | **0.64** | **− 0.4** | | | | | | | | | **4.2** | |
| Moorhead | 940 | 8 | 57 | 28.95 | 29.98 | − .10 | 40.9 | +19.5 | 80 | 23 | 53 | 14 | 7 | 29 | 39 | 36 | 33 | 83 | 0.36 | − 0.8 | 3 | 7,385 | nw. | 42 | nw. | 6 | 19 | 8 | 4 | 3.5 | 0.1 |
| Bismarck | 1,674 | 8 | 57 | 28.18 | 30.00 | − .06 | 43.2 | +21.1 | 81 | 22 | 57 | 8 | 1 | 29 | 40 | 36 | 30 | 70 | 0.54 | − 0.5 | 3 | 8,834 | nw. | 60 | w. | 23 | 15 | 13 | 3 | 3.6 | T. |
| Devils Lake | 1,482 | 11 | 44 | 28.34 | 29.95 | − .10 | 39.6 | +21.1 | 85 | 23 | 52 | 11 | 7 | 28 | 43 | 33 | 28 | 73 | 0.34 | − 0.7 | 5 | 10 503 | w. | 60 | nw. | 6 | 11 | 15 | 5 | 4.6 | 0.2 |
| Williston | 1,872 | 14 | 56 | 27.96 | 29.97 | − .07 | 42.3 | +20.7 | 84 | 22 | 56 | 3 | 1 | 29 | 43 | 35 | 29 | 67 | 1.31 | + 0.6 | 5 | 7,609 | w. | 58 | w. | 5 | 10 | 11 | 10 | 5.3 | 0.0 |
| *Upper Miss. Valley.* | | | | | | | **50.3** | **+14.3** | | | | | | | | | | | **63** | **0.30** | **− 2.1** | | | | | | | | | **3.1** | |
| Minneapolis | 918 | 102 | 208 | ..... | ..... | ..... | 45.0 | ..... | 83 | 23 | 55 | 16 | 7 | 34 | 35 | ..... | ..... | ..... | 0.09 | − 1.6 | 2 | 10,102 | s. | 54 | nw. | 6 | 20 | 7 | 4 | 3.2 | 0.9 |
| St. Paul | 837 | 171 | 179 | 29.08 | 30.00 | − .05 | 44.9 | +16.7 | 83 | 23 | 55 | 16 | 7 | 34 | 36 | 38 | 32 | 66 | 0.16 | − 1.4 | 4 | 8,932 | nw. | 52 | w. | 6 | 19 | 10 | 2 | 2.9 | 0.6 |
| La Crosse | 714 | 11 | 48 | 29.24 | 30.02 | − .02 | 45.7 | +15.2 | 83 | 23 | 57 | 18 | 10 | 34 | 39 | ..... | ..... | ..... | 0.03 | − 1.6 | 2 | 5,048 | s. | 29 | nw. | 6 | 13 | 14 | 4 | 4.1 | 0.2 |
| Madison | 974 | 70 | 78 | 28.96 | 30.03 | − .01 | 44.6 | +14.5 | 82 | 29 | 55 | 18 | 8 | 34 | 43 | 38 | 31 | 66 | 0.14 | − 2.1 | 2 | 7,823 | sw. | 40 | sw. | 30 | 20 | 10 | 1 | 2.9 | 0.4 |
| Charles City | 1,015 | 10 | 49 | 28.95 | 30.05 | .00 | 44.4 | +16.0 | 83 | 23 | 56 | 18 | 8 | 32 | 40 | 38 | 34 | 76 | 0.18 | − 1.8 | 3 | 5,636 | nw. | 30 | nw. | 6 | 9 | 13 | 9 | 4.8 | |
| Davenport | 636 | 71 | 79 | 29.39 | 30.06 | + .03 | 49.9 | +14.5 | 84 | 23 | 61 | 24 | 15 | 38 | 42 | 42 | 35 | 64 | 0.39 | − 1.8 | 4 | 5,506 | nw. | 32 | nw. | 6 | 26 | 5 | 0 | 1.8 | |
| Des Moines | 861 | 84 | 101 | 29.11 | 30.03 | − .01 | 51.4 | +15.7 | 86 | 23 | 63 | 24 | 15 | 40 | 35 | 42 | 35 | 60 | 0.33 | − 1.3 | 2 | 6,426 | sw. | 44 | sw. | 23 | 17 | 10 | 4 | 3.5 | |
| Dubuque | 698 | 100 | 115 | 29.32 | 30.08 | + .04 | 47.8 | +14.6 | 84 | 23 | 59 | 20 | 10 | 37 | 41 | 39 | 32 | 62 | 0.14 | − 2.1 | 4 | 5,034 | s. | 32 | nw. | 7 | 23 | 7 | 1 | 2.5 | T. |
| Keokuk | 614 | 64 | 78 | 29.40 | 30.08 | + .05 | 51.6 | +15.7 | 86 | 23 | 66 | 24 | 15 | 42 | 38 | 44 | 37 | 64 | 0.53 | − 1.8 | 3 | 5,872 | s. | 36 | sw. | 30 | 25 | 6 | 0 | 2.3 | |
| Cairo | 336 | 87 | 93 | 29.74 | 30.12 | + .08 | 58.8 | +11.8 | 87 | 24 | 69 | 28 | 15 | 48 | 31 | 48 | 40 | 57 | 1.39 | − 2.6 | 5 | 6,542 | s. | 36 | n. | 20 | 16 | 7 | 8 | 3.8 | |
| La Salle | 536 | 56 | 64 | 29.50 | 30.08 | + .05 | 49.3 | +12.5 | 84 | 23 | 61 | 24 | 15 | 38 | 47 | ..... | ..... | ..... | 0.19 | − 2.6 | 4 | 6,124 | sw. | 39 | nw. | 6 | 21 | 8 | 2 | 2.8 | |
| Peoria | 639 | 11 | 45 | 29.41 | 30.09 | + .06 | 49.8 | +12.8 | 85 | 23 | 63 | 18 | 15 | 37 | 41 | 41 | 35 | 66 | 0.52 | − 2.4 | 4 | 6,230 | s. | 42 | w. | 30 | 23 | 7 | 1 | 3.3 | |
| Springfield, Ill. | 644 | 10 | 91 | 29.38 | 30.08 | + .05 | 52.8 | +13.7 | 86 | 23 | 65 | 24 | 15 | 41 | 41 | 44 | 38 | 64 | 0.18 | − 2.9 | 3 | 7,093 | s. | 36 | sw. | 30 | 16 | 11 | 4 | 3.5 | |
| Hannibal | 534 | 75 | 109 | 29.50 | 30.08 | + .06 | 53.9 | +12.3 | 88 | 23 | 67 | 21 | 15 | 41 | 39 | ..... | ..... | ..... | 0.15 | − 2.6 | 3 | 7,361 | sw. | 42 | sw. | 30 | 21 | 8 | 2 | 2.8 | |
| St. Louis | 567 | 208 | 317 | 29.47 | 30.08 | + .05 | 57.5 | +14.0 | 87 | 23 | 68 | 29 | 15 | 47 | 37 | 46 | 37 | 51 | 0.14 | − 3.3 | 3 | 7,963 | sw. | 36 | nw. | 6 | 22 | 7 | 2 | 2.7 | |
| *Missouri Valley.* | | | | | | | **53.3** | **+17.2** | | | | | | | | | | | **57** | **0.42** | **− 1.4** | | | | | | | | | **2.8** | |
| Columbia, Mo. | 784 | 11 | 84 | 29.25 | 30.08 | + .05 | 55.8 | +14.4 | 90 | 22 | 69 | 20 | 15 | 42 | 43 | ..... | ..... | ..... | 0.64 | − 2.4 | 5 | 6,533 | s. | 31 | s. | 29 | 27 | 2 | 2 | 1.3 | T. |
| Kansas City | 963 | 161 | 181 | 29.01 | 30.05 | + .03 | 58.2 | +17.4 | 90 | 22 | 70 | 29 | 10 | 47 | 36 | 47 | 38 | 53 | 0.08 | − 2.7 | 2 | 9,060 | s. | 48 | n. | 6 | 26 | 3 | 2 | 1.5 | T. |
| Springfield, Mo. | 1,324 | 98 | 104 | 28.68 | 30.09 | + .07 | 57.6 | +14.1 | 85 | 23 | 69 | 28 | 15 | 46 | 31 | 47 | 37 | 54 | 1.60 | − 2.5 | 4 | 7,861 | s. | 38 | s. | 29 | 23 | 5 | 3 | 2.2 | 1.6 |
| Iola | 984 | 11 | 50 | 29.02 | 30.07 | + .06 | 57.4 | +15.0 | 89 | 22 | 72 | 26 | 15 | 43 | 45 | ..... | ..... | ..... | 0.32 | − 2.0 | 4 | 6,392 | s. | 37 | n. | 6 | 20 | 7 | 4 | 2.6 | 1.4 |
| Topeka | 983 | 85 | 101 | ..... | ..... | ..... | 57.2 | +16.3 | 90 | 22 | 71 | 27 | 15 | 43 | 44 | ..... | ..... | ..... | 0.06 | − 2.2 | 2 | 7,689 | s. | 39 | s. | 29 | 28 | 2 | 1 | 1.3 | T. |
| Lincoln | 1,189 | 11 | 84 | 28.76 | 30.04 | + .02 | 53.4 | +17.4 | 90 | 22 | 68 | 28 | 15 | 38 | 46 | 42 | 32 | 55 | 0.10 | − 1.2 | 1 | 8,038 | s. | 48 | s. | 23 | 19 | 8 | 4 | 3.4 | 1.0 |
| Omaha | 1,105 | 115 | 121 | 28.85 | 30.04 | .00 | 54.5 | +18.5 | 88 | 22 | 67 | 29 | 10 | 42 | 41 | 43 | 34 | 54 | T. | − 1.4 | 0 | 6,046 | s. | 44 | n. | 6 | 20 | 7 | 4 | 3.1 | T. |
| Valentine | 2,598 | 47 | 54 | 27.29 | 30.02 | − .01 | 49.1 | +17.2 | 87 | 22 | 64 | 17 | 10 | 34 | 45 | 39 | 29 | 56 | 0.86 | − 0.3 | 5 | 7,620 | w. | 46 | nw. | 30 | 22 | 9 | 0 | 2.9 | 6.2 |
| Sioux City | 1,135 | 96 | 164 | 28.80 | 30.03 | − .02 | 50.6 | +18.0 | 88 | 23 | 64 | 26 | 10 | 37 | 42 | 41 | 33 | 59 | 0.03 | − 1.2 | 1 | 9,545 | s. | 52 | nw. | 6 | 15 | 8 | 8 | 4.2 | |
| Pierre | 1,572 | 70 | 75 | 28.32 | 30.00 | − .05 | 49.4 | +19.9 | 90 | 22 | 62 | 25 | 7 | 36 | 47 | 39 | 30 | 57 | 1.53 | + 0.2 | 3 | 7,634 | e. | 60 | w. | 27 | 17 | 11 | 3 | 3.4 | T. |
| Huron | 1,306 | 56 | 67 | 28.60 | 30.02 | − .04 | 45.8 | +19.1 | 85 | 23 | 58 | 20 | 7 | 33 | 49 | 39 | 33 | 70 | 0.10 | − 0.9 | 2 | 8,115 | w. | 40 | nw. | 30 | 17 | 6 | 8 | 3.7 | T. |
| Yankton | 1,233 | 49 | 57 | 28.69 | 30.01 | − .04 | 50.4 | +19.2 | 88 | 23 | 64 | 26 | 14 | 36 | 43 | ..... | ..... | ..... | 0.39 | − 0.8 | 2 | 6,224 | w. | 38 | nw. | 6 | 12 | 14 | 5 | 4.4 | T. |
| *Northern Slope.* | | | | | | | **44.9** | **+14.1** | | | | | | | | | | | **57** | **0.93** | **− 0.2** | | | | | | | | | **3.9** | |
| Havre | 2,505 | 11 | 44 | 27.33 | 29.98 | − .02 | 44.7 | +17.4 | 77 | 20 | 58 | 13 | 1 | 31 | 41 | 39 | 32 | 65 | 0.33 | − 0.2 | 3 | 7,195 | sw. | 60 | w. | 5 | 17 | 11 | 3 | 4.0 | 3.0 |
| Miles City | 2,371 | 26 | 48 | 27.46 | 30.04 | + .02 | 48.2 | +19.6 | 88 | 22 | 62 | 24 | 1 | 35 | 42 | 40 | 38 | 68 | 1.75 | + 1.0 | 5 | 4,502 | se. | 39 | nw. | 5 | 14 | 13 | 4 | 4.0 | 5.2 |
| Helena | 4,110 | 8 | 56 | 25.80 | 30.02 | + .01 | 45.0 | +14.0 | 71 | 20 | 56 | 20 | 6 | 33 | 33 | 36 | 27 | 54 | 0.04 | − 0.7 | 3 | 6,091 | w. | 39 | sw. | 5 | 14 | 12 | 5 | 4.2 | 0.1 |
| Kalispell | 2,962 | 11 | 34 | 26.96 | 30.05 | + .06 | 41.0 | + 8.0 | 64 | 15 | 52 | 19 | 6 | 30 | 32 | 35 | 29 | 68 | 1.45 | + 0.4 | 10 | 3,435 | w. | 38 | sw. | 5 | 11 | 12 | 8 | 5.0 | 4.1 |
| Rapid City | 3,234 | 46 | 50 | 26.60 | 30.04 | + .03 | 49.0 | +17.4 | 85 | 22 | 63 | 22 | 10 | 35 | 40 | 39 | 27 | 48 | 1.73 | + 0.7 | 4 | 5,905 | w. | 66 | sw. | 23 | 16 | 12 | 3 | 3.7 | 8.3 |
| Cheyenne | 6,088 | 56 | 64 | 24.63 | 30.01 | + .05 | 44.4 | +11.4 | 73 | 22 | 58 | 17 | 30 | 30 | 39 | 34 | 21 | 43 | 1.45 | + 0.5 | 3 | 8,360 | nw. | 56 | w. | 1 | 15 | 13 | 3 | 3.6 | 14.1 |
| Lander | 5,372 | 26 | 36 | 24.67 | 30.06 | + .07 | 43.0 | +11.7 | 71 | 20 | 59 | 18 | 30 | 28 | 40 | 34 | 24 | 53 | 0.59 | − 1.0 | 3 | 3,304 | sw. | 33 | sw. | 5 | 15 | 13 | 3 | 3.6 | 2.7 |
| Sheridan | 3,790 | 9 | 47 | 26.10 | 30.02 | ..... | 45.2 | ..... | 78 | 22 | 61 | 22 | 6 | 30 | 46 | 36 | 26 | 55 | 0.36 | ..... | 2 | 5,119 | nw. | 50 | nw. | 23 | 15 | 12 | 4 | 3.8 | T. |
| Yellowstone Park | 6,200 | 11 | 48 | 23.91 | 30.09 | + .07 | 38.0 | +11.5 | 62 | 20 | 49 | 16 | 30 | 27 | 35 | 31 | 25 | 63 | 0.82 | − 1.4 | 11 | 6,416 | s. | 45 | sw. | 22 | 8 | 14 | 9 | 5.2 | 5.9 |
| North Platte | 2,821 | 11 | 51 | 27.10 | 30.04 | + .04 | 51.0 | +16.3 | 86 | 22 | 70 | 22 | 1 | 32 | 49 | 39 | 29 | 54 | 0.19 | − 0.7 | 2 | 5,869 | w. | 46 | se. | 26 | 23 | 5 | 3 | 2.2 | 2.2 |
| *Middle Slope.* | | | | | | | **55.3** | **+12.8** | | | | | | | | | | | **47** | **0.28** | **− 1.2** | | | | | | | | | **3.6** | |
| Denver | 5,291 | 129 | 136 | 24.75 | 30.01 | + .06 | 50.4 | +11.7 | 78 | 22 | 65 | 18 | 30 | 36 | 42 | 38 | 22 | 38 | 0.96 | 0.0 | 2 | 7,255 | s. | 50 | n. | 29 | 24 | 6 | 1 | 2.4 | 2.8 |
| Leadville | 10,242 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Pueblo | 4,685 | 80 | 86 | 25.32 | 30.01 | + .09 | 51.2 | +10.6 | 81 | 22 | 68 | 24 | 31 | 34 | 49 | 38 | 24 | 41 | 0.05 | − 0.8 | 1 | 5,333 | nw. | 44 | w. | 26 | 24 | 6 | 1 | 1.9 | |
| Concordia | 1,398 | 42 | 50 | 28.57 | 30.05 | + .04 | 55.6 | +14.9 | 89 | 23 | 71 | 26 | 10 | 40 | 49 | 44 | 35 | 55 | T. | − 1.5 | 0 | 5,789 | sw. | 37 | s. | 29 | 18 | 13 | 0 | 2.7 | T. |
| Dodge City | 2,509 | 11 | 51 | 27.44 | 30.06 | + .09 | 55.8 | +14.1 | 90 | 25 | 72 | 24 | 31 | 39 | 46 | 40 | 30 | 47 | 0.01 | − 0.9 | 1 | 8,894 | s. | 48 | se. | 28 | 20 | 9 | 2 | 3.2 | |
| Wichita | 1,358 | 98 | 121 | 28.65 | 30.08 | + .09 | 58.1 | +14.0 | 89 | 25 | 72 | 29 | 10 | 44 | 42 | 46 | 34 | 48 | T. | − 2.2 | 0 | 8,576 | s. | 42 | n. | 6 | 19 | 10 | 2 | 3.5 | |
| Oklahoma | 1,214 | 10 | 47 | 28.78 | 30.06 | + .08 | 60.5 | +11.3 | 87 | 25 | 74 | 33 | 11 | 47 | 40 | 48 | 37 | 52 | 0.65 | − 1.7 | 3 | 11,660 | s. | 52 | n. | 6 | 16 | 13 | 2 | 3.3 | |
| *Southern Slope.* | | | | | | | **61.1** | **+ 7.9** | | | | | | | | | | | **42** | **0.69** | **− 0.4** | | | | | | | | | **3.3** | |
| Abilene | 1,738 | 10 | 52 | 28.26 | 30.06 | + .10 | 63.6 | + 8.7 | 90 | 8 | 77 | 33 | 11 | 50 | 42 | 49 | 36 | 46 | 0.31 | − 1.1 | 3 | 8,502 | s. | 42 | s. | 26 | 15 | 7 | 9 | 4.4 | |
| Amarillo | 3,676 | 10 | 49 | 26.32 | 30.04 | + .09 | 56.5 | +11.5 | 87 | 25 | 72 | 31 | 10 | 41 | 48 | 44 | 34 | 53 | 0.34 | − 0.3 | 3 | 9,183 | s. | 54 | s. | 26 | 24 | 7 | 0 | 3.1 | |
| Del Rio | 944 | 8 | 57 | 29.06 | 30.04 | + .09 | 67.2 | + 5.5 | 88 | 8 | 80 | 40 | 2 | 54 | 47 | ..... | ..... | ..... | 2.06 | + 0.4 | 4 | 6,833 | se. | 29 | se. | 28 | 15 | 8 | 8 | 3.9 | |
| Roswell | 3,578 | 9 | 57 | 26.41 | 30.03 | + .13 | 57.2 | + 5.9 | 89 | 25 | 76 | 28 | 12 | 38 | 53 | 43 | 30 | 44 | 0.05 | − 0.3 | 1 | 5,268 | s. | 44 | w. | 28 | 15 | 12 | 4 | 3.7 | |
| *Southern Plateau.* | | | | | | | **55.7** | **+ 4.7** | | | | | | | | | | | **42** | **0.66** | **− 0.1** | | | | | | | | | **2.7** | |
| El Paso | 3,762 | 110 | 133 | 26.21 | 29.95 | + .07 | 61.0 | + 5.1 | 86 | 25 | 75 | 36 | 27 | 47 | 42 | 44 | 22 | 28 | T. | − 0.4 | 0 | 7,736 | e. | 57 | w. | 28 | 19 | 11 | 1 | 2.4 | |
| Santa Fe | 7,013 | 8 | 56 | 23.30 | 30.03 | + .14 | 45.8 | + 6.4 | 69 | 5 | 59 | 20 | 31 | 32 | 35 | 34 | 20 | 40 | 0.55 | − 0.2 | 3 | 6,970 | ne. | 43 | sw. | 28 | 23 | 6 | 2 | 2.9 | T. |
| Flagstaff | 6,907 | 8 | 57 | 23.38 | 30.00 | + .09 | 41.1 | + 5.2 | 68 | 4 | 57 | 3 | 27 | 25 | 43 | 32 | 24 | 61 | 2.65 | + 0.8 | 4 | 5,608 | nw. | 43 | sw. | 22 | 15 | 8 | 8 | 3.8 | 18.5 |
| Phoenix | 1,108 | 50 | 56 | 28.80 | 29.95 | + .04 | 65.6 | + 5.1 | 92 | 21 | 80 | 41 | 27 | 51 | 42 | 54 | 44 | 48 | 0.61 | + 0.1 | 2 | 3,365 | e. | 21 | sw. | 27 | 20 | 9 | 2 | 2.6 | |
| Yuma | 141 | 9 | 58 | 29.81 | 29.96 | + .02 | 67.5 | + 3.0 | 98 | 4 | 85 | 41 | 28 | 50 | 46 | 52 | 38 | 42 | 0.02 | − 0.3 | 1 | 4,571 | w. | 32 | w. | 27 | 26 | 3 | 2 | 1.3 | |
| Brawley | †105 | 11 | 31 | 30.07 | 29.96 | ..... | 66.4 | ..... | 95 | 3 | 84 | 40 | 29 | 49 | 46 | ..... | ..... | ..... | 0.06 | ..... | 1 | 4,555 | w. | 37 | sw. | 27 | 19 | 11 | 1 | 2.4 | |
| Independence | 3,910 | 11 | 42 | 25.99 | 29.98 | + .04 | 53.2 | + 3.6 | 80 | 4 | 68 | 26 | 24 | 39 | 41 | 42 | 26 | 39 | 0.10 | − 0.4 | 2 | 6,669 | s. | 44 | se. | 21 | 15 | 13 | 3 | 3.6 | |
| *Middle Plateau.* | | | | | | | **47.5** | **+ 7.2** | | | | | | | | | | | **52** | **0.54** | **− 0.8** | | | | | | | | | **4.1** | |
| Reno | 4,537 | 56 | 63 | 25.49 | 30.03 | + .05 | 47.6 | + 6.6 | 71 | 3 | 62 | 24 | 25 | 33 | 42 | 38 | 28 | 53 | 0.22 | − 1.0 | 4 | 4,496 | sw. | 32 | w. | 23 | 12 | 11 | 8 | 4.5 | 0.2 |
| Tonopah | 6,090 | 12 | 20 | 24.07 | 29.92 | ..... | 47.4 | ..... | 68 | 3 | 56 | 27 | 28 | 38 | 26 | 37 | 24 | 43 | 0.20 | − 1.2 | 2 | 7,589 | se. | 40 | nw. | 28 | 12 | 14 | 5 | 4.3 | T. |
| Winnemucca | 4,344 | 18 | 56 | 25.65 | 30.05 | + .04 | 48.0 | + 8.4 | 72 | 13 | 61 | 28 | 29 | 35 | 37 | 40 | 33 | 64 | 0.24 | − 0.7 | 5 | 4,734 | ne. | 31 | sw. | 14 | 11 | 9 | 11 | 5.0 | 0.3 |
| Modena | 5,479 | 10 | 43 | 24.65 | 30.02 | + .06 | 44.4 | + 5.2 | 71 | 5 | 60 | 20 | 11 | 28 | 42 | 36 | 26 | 55 | 0.80 | − 0.6 | 5 | 7,278 | w. | 46 | sw. | 22 | 12 | 13 | 6 | 4.4 | 4.8 |
| Salt Lake City | 4,360 | 147 | 189 | 25.66 | 30.05 | + .07 | 49.6 | + 8.2 | 74 | 21 | 60 | 30 | 30 | 39 | 36 | 41 | 31 | 50 | 1.58 | − 0.4 | 5 | 5,300 | se. | 34 | nw. | 22 | 18 | 10 | 3 | 3.5 | 1.5 |
| Durango | 6,546 | 18 | 56 | 23.70 | 30.04 | + .12 | 44.4 | + 6.9 | 70 | 19 | 60 | 22 | 31 | 29 | 39 | 34 | 23 | 51 | 0.64 | − 0.8 | 5 | 4 609 | nw. | 28 | w. | 26 | 14 | 15 | 2 | 3.7 | 1.3 |
| Grand Junction | 4,608 | 43 | 51 | 25.43 | 30.02 | + .08 | 51.2 | + 7.7 | 77 | 21 | 65 | 25 | 30 | 37 | 35 | 40 | 29 | 47 | 0.11 | − 0.6 | 1 | 4,149 | nw. | 30 | s. | 23 | 23 | 4 | 4 | 3.1 | T. |
| *Northern Plateau.* | | | | | | | **45.5** | **+ 7.3** | | | | | | | | | | | **61** | **1.09** | **− 0.5** | | | | | | | | | **5.2** | |
| Baker City | 3,471 | 48 | 58 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Boise | 2,739 | 78 | 86 | 27.23 | 30.11 | + .08 | 49.0 | + 6.8 | 74 | 19 | 60 | 30 | 29 | 38 | 32 | 42 | 34 | 59 | 0.83 | − 0.6 | 7 | 3,643 | nw. | 25 | nw. | 28 | 13 | 9 | 9 | 4.8 | 0.3 |
| Lewiston | 757 | 10 | 51 | 29.27 | 30.09 | + .06 | 49.6 | + 5.6 | 72 | 19 | 60 | 30 | 6 | 39 | 33 | ..... | ..... | ..... | 1.56 | + 0.3 | 11 | 3,656 | e. | 47 | w. | 5 | 10 | 6 | 15 | 5.9 | |
| Pocatello | 4,477 | 46 | 54 | 25.53 | 30.07 | + .06 | 46.0 | + 9.1 | 70 | 21 | 58 | 26 | 29 | 34 | 37 | 38 | 30 | 59 | 0.64 | − 1.1 | 5 | 6,092 | se. | 34 | sw. | 28 | 15 | 9 | 7 | 4.0 | T. |
| Spokane | 1 929 | 101 | 110 | 28.02 | 30.09 | + .08 | 46.2 | + 7.3 | 69 | 15 | 56 | 25 | 25 | 36 | 34 | 40 | 34 | 64 | 0.78 | − 0.7 | 10 | 4,978 | sw. | 33 | sw. | 2 | 7 | 10 | 14 | 6.4 | T. |
| Walla Walla | 1,000 | 71 | 79 | 29.01 | 30.09 | + .07 | 51.8 | + 7.8 | 71 | 12 | 61 | 27 | 6 | 43 | 26 | 46 | 38 | 62 | 1.65 | − 0.2 | 8 | 3,890 | s. | 32 | nw. | 28 | 14 | 7 | 10 | 4.8 | |
| *N. Pac. Coast Reg.* | | | | | | | **47.5** | **+ 3.3** | | | | | | | | | | | **82** | **2.82** | **− 2.1** | | | | | | | | | **6.2** | |
| Blaine | 58 | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| North Head | 211 | 11 | 56 | 29.89 | 30.12 | + .11 | 46.0 | + 1.1 | 59 | 11 | 50 | 35 | 6 | 42 | 17 | 44 | 43 | 91 | 4.24 | − 1.0 | 20 | 9,980 | se. | 56 | s. | 1 | 4 | 13 | 14 | 6.8 | |

TABLE I.—*Climatological data for U. S. Weather Bureau stations, March, 1910*—Continued.

| Stations. | Elevation of instruments. | | | Pressure, in inches. | | | Temperature of the air, in degrees Fahrenheit. | | | | | | | | Mean wet thermometer. | Mean temperature of the dew-point. | Mean relative humidity, per cent. | Precipitation, in inches. | | | Wind. | | | | Clear days. | Partly cloudy days. | Cloudy days. | Average cloudiness during daylight, tenths. | Total snowfall. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometer above sea level, feet. | Thermometers above ground. | Anemometer above ground. | Actual, reduced to mean of 24 hours. | Sea level, reduced to mean of 24 hrs. | Departure from normal. | Mean max. + mean min. ÷ 2. | Departure from normal. | Maximum. | Date. | Mean maximum. | Minimum. | Date. | Mean minimum. | Greatest daily range. | | | | Total. | Departure from normal. | Days with .01, or more. | Total movement, miles. | Prevailing direction. | Maximum velocity. Miles per hour. | Maximum velocity. Direction. | Maximum velocity. Date. | | | | |
| *N.P.Coast Reg.*-Con. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Port Crescent | 259 | 8 | 53 | 29.82 | 30.10 | + .12 | 42.7 | + 2.2 | 60 | 12 | 50 | 28 | 6 | 36 | 27 | ... | ... | ... | 2.60 | − 1.3 | 16 | 3,690 | s. | 17 | sw. | 5 | 2 | 19 | 10 | 6.2 | 0.5 |
| Seattle | 123 | 185 | 224 | 29.97 | 30.10 | + .11 | 47.6 | + 3.4 | 67 | 16 | 54 | 31 | 6 | 41 | 26 | 45 | 41 | 81 | 1.80 | − 1.8 | 15 | 6,048 | s. | 39 | s. | 1 | 4 | 15 | 12 | 6.6 | |
| Tacoma | 213 | 113 | 120 | 29.86 | 30.09 | + .09 | 47.6 | + 3.4 | 70 | 13 | 55 | 28 | 6 | 40 | 32 | 45 | 42 | 81 | 2.90 | − 1.1 | 15 | 3,962 | sw. | 24 | sw. | 1 | 11 | 11 | 9 | 5.4 | T. |
| Tatoosh Island | 86 | 7 | 57 | 29.97 | 30.07 | + .11 | 45.0 | + 2.1 | 57 | 16 | 48 | 35 | 5 | 41 | 14 | 43 | 41 | 88 | 3.92 | − 4.6 | 41 | 10,703 | s. | 52 | sw. | 4 | 2 | 9 | 20 | 8.0 | T. |
| Portland, Oreg. | 153 | 68 | 106 | 29.93 | 30.09 | + .07 | 52.2 | + 5.9 | 74 | 13 | 61 | 33 | 6 | 44 | 29 | 48 | 44 | 75 | 2.25 | − 2.9 | 13 | 3,928 | nw. | 26 | sw. | 1 | 10 | 13 | 8 | 5.4 | |
| Roseburg | 510 | 9 | 57 | 29.55 | 30.10 | + .06 | 51.7 | + 5.1 | 76 | 12 | 63 | 31 | 6 | 40 | 39 | 47 | 42 | 73 | 2.00 | − 2.0 | 12 | 2,137 | nw. | 17 | sw. | 4 | 5 | 22 | 4 | 5.1 | |
| *Mid. Pac. Coast Reg.* | | | | | | | 55.0 | + 2.4 | | | | | | | | | | 77 | 3.12 | − 0.6 | | | | | | | | | 5.6 | |
| Eureka | 62 | 62 | 80 | 30.05 | 30.12 | + .06 | 49.6 | + 1.6 | 66 | 17 | 54 | 35 | 24 | 45 | 19 | 47 | 44 | 86 | 1.97 | − 5.0 | 14 | 4,849 | n. | 33 | nw. | 8 | 4 | 9 | 18 | 7.3 | |
| Mount Tamalpais | 2,375 | 11 | 18 | 27.58 | 30.07 | + .01 | 50.8 | ..... | 70 | 10 | 56 | 34 | 23 | 46 | 24 | 47 | 43 | 79 | 3.35 | + 0.1 | 12 | 12,432 | nw. | 66 | nw. | 22 | 11 | 7 | 13 | 5.4 | |
| Point Reyes Light | 490 | 7 | 18 | 29.51 | 30.02 | ..... | 50.3 | ..... | 68 | 9 | 54 | 43 | 12 | 46 | 22 | ... | ... | ... | 4.02 | ..... | 10 | 16,394 | nw. | 64 | s. | 26 | 8 | 6 | 17 | 6.7 | |
| Red Bluff | 332 | 50 | 56 | 29.69 | 30.05 | + .01 | 57.7 | + 3.9 | 80 | 9 | 68 | 37 | 24 | 48 | 30 | 51 | 46 | 68 | 3.36 | − 0.4 | 6 | 4,104 | nw. | 30 | nw. | 8 | 14 | 6 | 11 | 4.3 | |
| Sacramento | 69 | 106 | 117 | 29.97 | 30.04 | + .01 | 57.0 | + 2.8 | 77 | 10 | 66 | 42 | 29 | 48 | 28 | 52 | 48 | 74 | 3.06 | 0.0 | 8 | 4,856 | sw. | 31 | s. | 22 | 14 | 8 | 9 | 4.6 | |
| San Francisco | 155 | 200 | 204 | 29.90 | 30.07 | + .01 | 54.9 | + 2.2 | 77 | 9 | 62 | 44 | 27 | 48 | 27 | 50 | 46 | 79 | 3.78 | + 0.6 | 11 | 5,195 | w. | 28 | s. | 26 | 13 | 10 | 8 | 4.6 | |
| San Jose | 141 | 12 | 110 | 29.90 | 30.05 | ..... | 55.4 | + 1.7 | 78 | 31 | 66 | 37 | 24 | 44 | 35 | ... | ... | ... | 2.84 | − 0.1 | 12 | 3,457 | nw. | 24 | s. | 21 | 10 | 11 | 10 | 5.2 | |
| Southeast Farallon | 30 | 9 | 17 | 30.03 | 30.06 | ..... | 50.5 | ..... | 57 | 15 | 53 | 44 | 27 | 48 | 9 | ... | ... | ... | 3.49 | + 0.4 | 9 | 13,490 | nw. | 56 | s. | 26 | 7 | 7 | 17 | 6.6 | |
| *S. Pac. Coast Reg.* | | | | | | | 58.1 | + 3.0 | | | | | | | | | | 73 | 2.06 | − 0.6 | | | | | | | | | 5.0 | |
| Fresno | 330 | 67 | 70 | 29.70 | 30.06 | + .05 | 59.8 | + 4.9 | 84 | 12 | 72 | 38 | 24 | 48 | 35 | 52 | 47 | 68 | 1.28 | − 0.5 | 7 | 3,398 | nw. | 36 | sw. | 21 | 11 | 12 | 8 | 4.7 | |
| Los Angeles | 338 | 159 | 191 | 29.69 | 30.06 | + .04 | 59.0 | + 3.4 | 86 | 2 | 68 | 41 | 27 | 50 | 29 | 52 | 47 | 72 | 1.86 | − 1.1 | 5 | 4,160 | sw. | 24 | sw. | 25 | 11 | 7 | 13 | 5.1 | |
| San Diego | 87 | 94 | 102 | 29.96 | 30.06 | + .04 | 57.2 | + 1.0 | 84 | 31 | 64 | 45 | 27 | 51 | 32 | 52 | 48 | 77 | 1.30 | − 0.4 | 7 | 4,186 | nw. | 32 | s. | 27 | 13 | 11 | 7 | 4.4 | |
| San Luis Obispo | 201 | 47 | 54 | 29.86 | 30.08 | + .02 | 56.5 | + 2.7 | 84 | 2 | 66 | 38 | 28 | 47 | 32 | 51 | 47 | 76 | 3.82 | − 0.2 | 11 | 4,090 | s. | 30 | se. | 21 | 8 | 5 | 18 | 6.0 | |
| *West Indies.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grand Turk | 11 | 6 | 20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| San Juan | 82 | 48 | 90 | 29.90 | 29.99 | ..... | 74.7 | ..... | 85 | 17 | 80 | 65 | 10 | 69 | 15 | 69 | 66 | 75 | 3.46 | + 1.1 | 15 | 7,871 | ne. | 31 | ne. | 30 | 13 | 13 | 5 | 4.5 | |
| *Panama.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Christobal | 17 | 5 | 60 | 29.89 | 29.91 | ..... | 77.5 | ..... | 83 | 31 | 81 | 67 | 21 | 74 | 13 | 73 | 71 | 81 | 5.46 | + 3.8 | 18 | 10,306 | n. | 33 | nw. | 16 | 15 | 13 | 3 | 4.0 | |
| Culebra | 172 | 4 | 30 | 29.48 | 29.90 | ..... | 77.4 | ..... | 90 | 14 | 86 | 61 | 21 | 68 | 28 | 70 | 63 | 85 | 1.36 | + 0.6 | 11 | 7,254 | nw. | 31 | n. | 3 | 6 | 18 | 7 | 5.8 | |
| Ancon | 92 | 6 | 69 | 29.79 | 29.88 | ..... | 79.4 | ..... | 94 | 13 | 90 | 65 | 10 | 69 | 27 | 72 | 70 | 84 | 1.83 | + 0.9 | 8 | 7,366 | nw. | 27 | nw. | 4 | 0 | 25 | 6 | 6.4 | |
| Alhajuela | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2.74 | + 2.0 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Bohio | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 6.60 | + 4.5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Gatun | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 9.08 | + 5.6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

† Below sea level.

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.80 inch in 1 hour, during March, 1910, at all stations furnished with self-registering gages.*

| Stations. | Date. | Total duration. From— | Total duration. To— | Total amount of precipitation. | Excessive rate. Began— | Excessive rate. Ended— | Amount before excessive began. | Depths of precipitation (in inches) during periods of time indicated. 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abilene, Tex. | 10 | ..... | ..... | 0.17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.15 | ..... | ..... | ..... |
| Albany, N. Y. | 7 | ..... | ..... | 0.37 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.27 | ..... | ..... | ..... |
| Alpena, Mich. | 19 | ..... | ..... | 0.26 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Amarillo, Tex. | 16 | ..... | ..... | 0.13 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.15 | ..... | ..... | ..... |
| Anniston, Ga. | 1 | ..... | ..... | 0.53 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.41 | ..... | ..... | ..... |
| Asheville, N. C. | 1 | ..... | ..... | 0.18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.12 | ..... | ..... | ..... |
| Atlanta, Ga. | 1 | D. N. | D. N. | 0.80 | 12:10 a. m. | 12:24 a. m. | 0.01 | 0.14 | 0.33 | 0.38 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Atlantic City, N. J. | 7 | ..... | ..... | 0.23 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.18 | ..... | ..... | ..... |
| Augusta, Ga. | 21 | ..... | ..... | 0.50 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.34 | ..... | ..... | ..... |
| Baker City, Oreg. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Baltimore, Md. | 6 | ..... | ..... | 0.06 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.06 | ..... | ..... | ..... |
| Bentonville, Ark. | 29 | ..... | ..... | 1.67 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.55 | ..... | ..... | ..... |
| Binghamton, N. Y. | 7 | ..... | ..... | 0.20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.13 | ..... | ..... | ..... |
| Birmingham, Ala. | 10 | ..... | ..... | 0.45 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.13 | ..... | ..... | ..... |
| Bismarck, N. Dak. | 29 | ..... | ..... | 0.50 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Block Island, R. I. | 7 | ..... | ..... | 0.41 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.31 | ..... | ..... | ..... |
| Boise, Idaho | 27–28 | ..... | ..... | 0.29 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Boston, Mass. | 7 | ..... | ..... | 0.54 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.24 | ..... | ..... | ..... |
| Buffalo, N. Y. | 13–14 | ..... | ..... | 0.34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Burlington, Vt. | 20 | ..... | ..... | 0.18 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Cairo, Ill. | 9 | ..... | ..... | 1.20 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.16 | ..... | ..... | ..... |
| Canton, N. Y. | 6 | ..... | ..... | 0.29 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.17 | ..... | ..... | ..... |
| Charles City, Iowa | 19 | ..... | ..... | 0.12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Charleston, S. C. | 1 | ..... | ..... | 0.61 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.13 | ..... | ..... | ..... |
| Charlotte, N. C. | 1 | ..... | ..... | 0.29 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.17 | ..... | ..... | ..... |
| Chattanooga, Tenn. | 1 | ..... | ..... | 0.68 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.52 | ..... | ..... | ..... |
| Cheyenne, Wyo. | 28–29 | ..... | ..... | 1.43 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Chicago, Ill. | 19–20 | ..... | ..... | 0.24 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.24 | ..... | ..... | ..... |
| Cincinnati, Ohio | 5 | ..... | ..... | 0.29 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.14 | ..... | ..... | ..... |
| Cleveland, Ohio | 20 | ..... | ..... | 0.12 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.06 | ..... | ..... | ..... |
| Columbia, Mo. | 29 | ..... | ..... | 0.39 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.18 | ..... | ..... | ..... |
| Columbia, S. C. | 1 | ..... | ..... | 0.33 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.11 | ..... | ..... | ..... |
| Columbus, Ohio | 20 | ..... | ..... | 0.28 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.18 | ..... | ..... | ..... |
| Concord, N. H. | 28–1‡ | ..... | ..... | 0.68 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Concordia, Kans. | 10 | ..... | ..... | T. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | ..... | ..... |
| Corpus Christi, Tex. | 31 | ..... | ..... | 2.06 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.73 | ..... | ..... | ..... |
| Davenport, Iowa | 26 | ..... | ..... | 0.17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.11 | ..... | ..... | ..... |
| Del Rio, Tex. | 30 | ..... | ..... | 0.96 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.92 | ..... | ..... | ..... |
| Denver, Colo. | 28–29 | ..... | ..... | 0.96 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Des Moines, Iowa | 25–26 | ..... | ..... | 0.33 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.29 | ..... | ..... | ..... |
| Detroit, Mich. | 20 | ..... | ..... | 0.34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Devils Lake, Mich. | 29–30 | ..... | ..... | 0.25 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Dodge City, Kans. | 26 | ..... | ..... | 0.01 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.01 | ..... | ..... | ..... |
| Dubuque, Iowa | 25–26 | ..... | ..... | 0.08 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Duluth, Minn. | 10–11 | ..... | ..... | 0.31 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Durango, Colo. | 15 | ..... | ..... | 0.34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Eastport, Me. | 7 | ..... | ..... | 0.97 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.42 | ..... | ..... | ..... |
| Elkins, W. Va. | 20 | ..... | ..... | 0.17 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.28 | ..... | ..... | ..... |
| El Paso, Tex. | 11, 19 | ..... | ..... | T. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | T. | ..... | ..... | ..... |
| Erie, Pa. | 20 | ..... | ..... | 0.34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |
| Escanaba, Mich. | 11 | ..... | ..... | 0.14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | * | ..... | ..... | ..... |

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, etc.*—Continued.

| Stations. | Date. | Total duration. | | Total amount of precipitation. | Excessive rate. | | Amount before excessive began. | Depths of precipitation (in inches) during periods of time indicated. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | From— | To— | | Began— | Ended— | | 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
| Eureka, Cal. | 22 | | | 0.85 | | | | | | | | | | | | | | 0.13 | | | |
| Evansville, Ind. | 20 | | | 0.01 | | | | | | | | | | | | | | 0.01 | | | |
| Flagstaff, Ariz. | 25-26 | | | 2.13 | | | | | | | | | | | | | | * | | | |
| Fort Smith, Ark. | 30 | | | 0.25 | | | | | | | | | | | | | | 0.25 | | | |
| Fort Worth, Tex. | 30 | | | 0.77 | | | | | | | | | | | | | | 0.17 | | | |
| Fresno, Cal. | 25 | | | 0.33 | | | | | | | | | | | | | | 0.24 | | | |
| Galveston, Tex. | 10 | 7:55 a. m. | 1:30 p. m. | 1.44 | 8:10 a. m. | 8:35 a. m. | 0.04 | 0.09 | 0.43 | 0.67 | 0.84 | 0.89 | | | | | | | | | |
| Grand Haven, Mich. | 30 | | | 0.11 | | | | | | | | | | | | | | 0.07 | | | |
| Grand Junction, Colo. | 26 | | | 0.11 | | | | | | | | | | | | | | 0.11 | | | |
| Grand Rapids, Mich. | 20 | | | 0.04 | | | | | | | | | | | | | | 0.03 | | | |
| Green Bay, Wis. | 11 | | | 0.03 | | | | | | | | | | | | | | * | | | |
| Hannibal, Mo. | 30 | | | 0.12 | | | | | | | | | | | | | | 0.05 | | | |
| Harrisburg, Pa. | 7 | | | 0.08 | | | | | | | | | | | | | | 0.07 | | | |
| Hartford, Conn. | 6-7 | | | 0.36 | | | | | | | | | | | | | | * | | | |
| Hatteras, N. C. | 11 | 8:30 p. m. | 9:55 p. m. | 0.55 | 9:33 p. m. | 9:46 p. m. | 0.17 | 0.13 | 0.30 | 0.39 | | | | | | | | | | | |
| Havre, Mont. | 8 | | | 0.20 | | | | | | | | | | | | | | * | | | |
| Helena, Mont. | 19 | | | 0.02 | | | | | | | | | | | | | | * | | | |
| Houghton, Mich. | 30 | | | 0.18 | | | | | | | | | | | | | | 0.18 | | | |
| Huron, S. Dak. | 29-30 | | | 0.10 | | | | | | | | | | | | | | * | | | |
| Independence, Cal. | 14 | | | 0.03 | | | | | | | | | | | | | | 0.07 | | | |
| Indianapolis, Ind. | 26 | | | 0.05 | | | | | | | | | | | | | | * | | | |
| Iola, Kans. | 9 | | | 0.19 | | | | | | | | | | | | | | * | | | |
| Jacksonville, Fla. | 1 | 3:20 p. m. | 6:35 p. m. | 0.63 | 3:40 p. m. | 4:06 p. m. | 0.01 | 0.22 | 0.32 | 0.38 | 0.42 | 0.48 | | | | | | | | | |
| Do | 11 | 2:05 p. m. | 8:15 p. m. | 0.89 | 2:22 p. m. | 2:40 p. m. | 0.02 | 0.20 | 0.30 | 0.38 | 0.43 | | | | | | | | | | |
| | | | | | 10:34 p. m. | 10:44 p. m. | 0.86 | 0.30 | 3.52 | | | | | | | | | | | | |
| Jupiter, Fla. | 4-5 | 6:08 p. m. | 7:15 a. m. | 4.53 | 11:17 p. m. | 11:37 p. m. | 1.42 | 0.12 | 0.33 | 0.46 | 0.52 | | | | | | | | | | |
| | | | | | 1:56 a. m. | 4:15 a. m. | 3.31 | 0.34 | 0.73 | 0.84 | 0.96 | | | | | | | | | | |
| Kalispell, Mont. | 22-23 | | | 0.62 | | | | | | | | | | | | | | * | | | |
| Kansas City, Mo. | 29 | | | 0.05 | | | | | | | | | | | | | | 0.04 | | | |
| Keokuk, Iowa | 29-30 | | | 0.36 | | | | | | | | | | | | | | 0.24 | | | |
| Key West, Fla. | 3 | | | 0.33 | | | | | | | | | | | | | | 0.32 | | | |
| Knoxville, Tenn. | 10 | | | 0.60 | | | | | | | | | | | | | | 0.18 | | | |
| La Crosse, Wis. | 1 | | | 0.02 | | | | | | | | | | | | | | * | | | |
| Lander, Wyo. | 26 | | | 0.47 | | | | | | | | | | | | | | * | | | |
| La Salle, Ill. | 26 | | | 0.12 | | | | | | | | | | | | | | * | | | |
| Lewiston, Idaho | 19 | | | 0.65 | | | | | | | | | | | | | | 0.29 | | | |
| Lexington, Ky. | 1 | | | 0.30 | | | | | | | | | | | | | | * | | | |
| Lincoln, Nebr. | 9 | | | 0.10 | | | | | | | | | | | | | | * | | | |
| Little Rock, Ark. | 30 | | | 0.65 | | | | | | | | | | | | | | 0.43 | | | |
| Los Angeles, Cal. | 27 | | | 0.02 | | | | | | | | | | | | | | 0.42 | | | |
| Louisville, Ky. | 20 | | | 0.12 | | | | | | | | | | | | | | 0.11 | | | |
| Lynchburg, Va. | 1 | | | 0.19 | | | | | | | | | | | | | | 0.10 | | | |
| Macon, Ga. | 11 | | | 0.26 | | | | | | | | | | | | | | 0.09 | | | |
| Madison, Wis. | 30 | | | 0.10 | | | | | | | | | | | | | | 0.06 | | | |
| Marquette, Mich. | 30 | | | 0.08 | | | | | | | | | | | | | | * | | | |
| Memphis, Tenn. | 10 | | | 0.52 | | | | | | | | | | | | | | 0.28 | | | |
| Meridian, Miss. | 10 | | | 0.80 | | | | | | | | | | | | | | 0.32 | | | |
| Milwaukee, Wis. | 30 | | | 0.03 | | | | | | | | | | | | | | 0.02 | | | |
| Minneapolis, Minn. | 29 | | | 0.04 | | | | | | | | | | | | | | 0.02 | | | |
| Mobile, Ala. | 1 | | | 1.31 | | | | | | | | | | | | | | 0.48 | | | |
| Modena, Utah | 27-28 | | | 0.34 | | | | | | | | | | | | | | * | | | |
| Montgomery, Ala. | 1 | | | 0.68 | | | | | | | | | | | | | | 0.43 | | | |
| Moorhead, Minn. | 29 | | | 0.22 | | | | | | | | | | | | | | * | | | |
| Mount Tamalpais, Cal. | 19 | | | 0.79 | | | | | | | | | | | | | | 0.18 | | | |
| Mount Weather, Va. | 10 | | | 0.22 | | | | | | | | | | | | | | * | | | |
| Nantucket, Mass. | 7 | | | 0.87 | | | | | | | | | | | | | | 0.41 | | | |
| Nashville, Tenn. | 10 | | | 0.54 | | | | | | | | | | | | | | 0.32 | | | |
| New Haven, Conn. | 7 | | | 0.37 | | | | | | | | | | | | | | 0.28 | | | |
| New Orleans, La. | 10 | 12:31 p. m. | 7:20 p. m. | 3.13 | 1:49 p. m. | 3:11 p. m. | 0.23 | 0.10 | 0.11 | 0.17 | 0.45 | 0.94 | 1.26 | 1.38 | 1.47 | 1.57 | 1.67 | 2.04 | 2.37 | | |
| New York, N. Y. | 2 | | | 0.24 | | | | | | | | | | | | | | 0.20 | | | |
| Norfolk, Va. | 1 | | | 0.84 | | | | | | | | | | | | | | 0.48 | | | |
| Northfield, Vt. | 7 | | | 0.33 | | | | | | | | | | | | | | * | | | |
| North Head, Wash. | 1 | | | 2.54 | | | | | | | | | | | | | | 0.20 | | | |
| North Platte, Nebr. | 9 | | | 0.18 | | | | | | | | | | | | | | * | | | |
| Oklahoma, Okla. | 19 | | | 0.17 | | | | | | | | | | | | | | 0.15 | | | |
| Omaha, Nebr. | 9 | | | T. | | | | | | | | | | | | | | T. | | | |
| Oswego, N. Y. | 14 | | | 0.35 | | | | | | | | | | | | | | * | | | |
| Palestine, Tex. | 10 | | | 0.61 | | | | | | | | | | | | | | 0.35 | | | |
| Parkersburg, W. Va. | 1 | | | 0.05 | | | | | | | | | | | | | | 0.04 | | | |
| Pensacola, Fla. | 11 | | | 0.22 | | | | | | | | | | | | | | 0.09 | | | |
| Peoria, Ill. | 26 | | | 0.38 | | | | | | | | | | | | | | 0.12 | | | |
| Philadelphia, Pa. | 1 | | | 0.28 | | | | | | | | | | | | | | * | | | |
| Phoenix, Ariz. | 25 | | | 0.59 | | | | | | | | | | | | | | 0.23 | | | |
| Pierre, S. Dak. | 28-29 | | | 1.50 | | | | | | | | | | | | | | * | | | |
| Pittsburg, Pa. | 29 | | | 0.18 | | | | | | | | | | | | | | * | | | |
| Pocatello, Idaho | 28 | | | 0.23 | | | | | | | | | | | | | | 0.10 | | | |
| Point Reyes Light, Cal. | 22 | | | 1.03 | | | | | | | | | | | | | | 0.37 | | | |
| Port Huron, Mich. | 20 | | | 0.27 | | | | | | | | | | | | | | * | | | |
| Portland, Me. | 7 | | | 0.57 | | | | | | | | | | | | | | 0.20 | | | |
| Portland, Oreg. | 22 | | | 0.60 | | | | | | | | | | | | | | 0.19 | | | |
| Providence, R. I. | 7 | | | 0.46 | | | | | | | | | | | | | | 0.24 | | | |
| Pueblo, Colo. | 29 | | | 0.05 | | | | | | | | | | | | | | 0.05 | | | |
| Raleigh, N. C. | 11 | | | 0.58 | | | | | | | | | | | | | | 0.07 | | | |
| Rapid City, S. Dak. | 26 | | | 0.72 | | | | | | | | | | | | | | * | | | |
| Red Bluff, Cal. | 19 | | | 1.32 | | | | | | | | | | | | | | 0.28 | | | |
| Reno, Nev. | 27 | | | 0.14 | | | | | | | | | | | | | | * | | | |
| Richmond, Va. | 1 | | | 0.65 | | | | | | | | | | | | | | 0.21 | | | |
| Rochester, N. Y. | 6-7 | | | 0.28 | | | | | | | | | | | | | | * | | | |
| Roseburg, Oreg. | 19 | | | 0.45 | | | | | | | | | | | | | | 0.37 | | | |
| Roswell, N. Mex. | 11 | | | 0.05 | | | | | | | | | | | | | | 0.04 | | | |
| Sacramento, Cal. | 20 | | | 0.97 | | | | | | | | | | | | | | 0.22 | | | |
| St. Louis, Mo. | 30 | | | 0.10 | | | | | | | | | | | | | | 0.05 | | | |
| St. Paul, Minn. | 29-30 | | | 0.09 | | | | | | | | | | | | | | * | | | |
| Salt Lake City, Utah | 22 | | | 0.44 | | | | | | | | | | | | | | 0.20 | | | |
| San Antonio, Tex. | 10 | | | 0.19 | | | | | | | | | | | | | | 0.19 | | | |
| San Diego, Cal. | 27 | | | 0.56 | | | | | | | | | | | | | | 0.44 | | | |
| Sandusky, Ohio | 20 | | | 0.27 | | | | | | | | | | | | | | * | | | |
| San Francisco, Cal. | 21 | | | 1.06 | | | | | | | | | | | | | | 0.34 | | | |
| San Jose, Cal. | 21 | | | 0.82 | | | | | | | | | | | | | | 0.28 | | | |
| San Luis Obispo, Cal. | 21 | | | 1.34 | | | | | | | | | | | | | | 0.57 | | | |
| Santa Fe, N. Mex. | 15 | | | 0.53 | | | | | | | | | | | | | | * | | | |
| Sault Ste. Marie, Mich. | 19 | | | 0.10 | | | | | | | | | | | | | | * | | | |
| Savannah, Ga. | 1 | | | 1.91 | | | | | | | | | | | | | | 0.37 | | | |

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, etc.*—Continued.

| Stations. | Date. | Total duration. From— | Total duration. To— | Total amount of precipitation. | Excessive rate. Began— | Excessive rate. Ended— | Amount before excessive began. | Depths of precipitation (in inches) during periods of time indicated. 5 min. | 10 min. | 15 min. | 20 min. | 25 min. | 30 min. | 35 min. | 40 min. | 45 min. | 50 min. | 60 min. | 80 min. | 100 min. | 120 min. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Scranton, Pa. | 7 | | | 0.43 | | | | | | | | | | | | | | * | | | |
| Seattle, Wash. | 23 | | | 0.42 | | | | | | | | | | | | | | 0.25 | | | |
| Sheridan, Wyo. | 23 | | | 0.35 | | | | | | | | | | | | | | 0.29 | | | |
| Shreveport, La. | 18 | 2:55 a. m. | 1:50 p. m. | 1.37 | 8:17 a. m. | 8:41 a. m. | 0.14 | 0.17 | 0.28 | 0.38 | 0.43 | 0.50 | | | | | | | | | |
| Sioux City, Iowa | 29 | | | 0.03 | | | | | | | | | | | | | | * | | | |
| Southeast Farallon, Cal | 21 | | | 1.19 | | | | | | | | | | | | | | 0.31 | | | |
| pokane, Wash. | 19–20 | | | 0.41 | | | | | | | | | | | | | | * | | | |
| Springfield, Ill. | 18 | | | 0.08 | | | | | | | | | | | | | | 0.05 | | | |
| Springfield, Mo. | 29–30 | | | 0.82 | | | | | | | | | | | | | | * | | | |
| Syracuse, N. Y. | 6–7 | | | 0.26 | | | | | | | | | | | | | | * | | | |
| Tacoma, Wash. | 1 | | | 1.15 | | | | | | | | | | | | | | 0.21 | | | |
| Tampa, Fla. | 4 | | | 0.27 | | | | | | | | | | | | | | 0.10 | | | |
| Tatoosh Island, Wash. | 3 | | | 0.57 | | | | | | | | | | | | | | 0.20 | | | |
| Taylor, Tex. | 31 | | | 1.41 | | | | | | | | | | | | | | 0.47 | | | |
| Thomasville, Ga. | 1 | | | 2.56 | | | | | | | | | | | | | | 0.61 | | | |
| Toledo, Ohio | 20 | | | 0.04 | | | | | | | | | | | | | | 0.04 | | | |
| Tonopah, Nev. | 22 | | | 0.16 | | | | | | | | | | | | | | * | | | |
| Topeka, Kans. | 9 | | | 0.05 | | | | | | | | | | | | | | 0.04 | | | |
| Valentine, Nebr. | 9 | | | 0.50 | | | | | | | | | | | | | | * | | | |
| Vicksburg, Miss. | 10 | | | 0.53 | | | | | | | | | | | | | | 0.19 | | | |
| Walla Walla, Wash. | 19 | | | 0.37 | | | | | | | | | | | | | | 0.15 | | | |
| Washington, D. C. | 10 | | | 0.38 | | | | | | | | | | | | | | * | | | |
| Wichita, Kans. | 9 | | | T. | | | | | | | | | | | | | | T. | | | |
| Williston, N. Dak. | 26 | | | 0.92 | | | | | | | | | | | | | | 0.16 | | | |
| Wilmington, N. C. | 1 | | | 0.60 | | | | | | | | | | | | | | 0.15 | | | |
| Winnemucca, Nev. | 19 | | | 0.07 | | | | | | | | | | | | | | 0.06 | | | |
| Wytheville, Va. | 5 | | | 0.34 | | | | | | | | | | | | | | 0.28 | | | |
| Yankton, S. Dak. | 29 | | | 0.29 | | | | | | | | | | | | | | 0.23 | | | |
| Yellowstone Park, Wyo. | 28 | | | 0.45 | | | | | | | | | | | | | | * | | | |

* Self-register not working. † Estimated. ‡ Began February 28, 1910,

TABLE III.—*Data furnished by the Canadian Meteorological Service, March, 1910.*

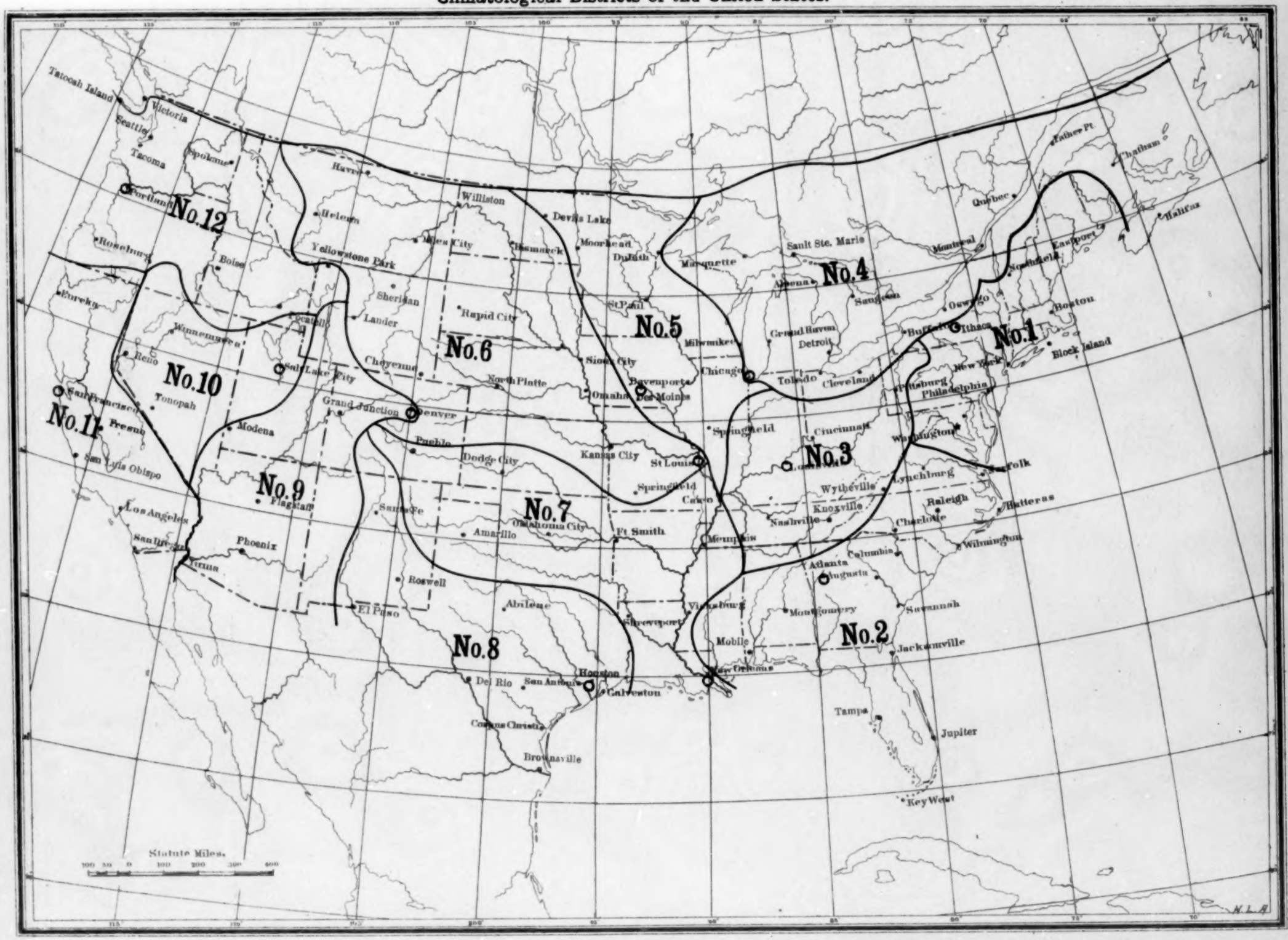
| Stations. | Pressure. Actual, reduced to mean of 24 hours. | Pressure. Sea level, reduced to mean of 24 hours. | Pressure. Departure from normal. | Temperature. Mean. | Temperature. Departure from normal. | Temperature. Mean maximum. | Temperature. Mean minimum. | Precipitation. Total. | Precipitation. Departure from normal. | Precipitation. Total snowfall. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Ins.* | *Ins.* | *Ins.* | ° | ° | ° | ° | *Ins.* | *Ins.* | *Ins.* |
| St Johns, N. F. | 29.86 | 30.02 | +.14 | 30.3 | + 2..6 | 36.4 | 24.1 | 2.40 | −2.36 | 13.0 |
| Sydney, C. B. I. | 29.98 | 30.02 | +.14 | 30.7 | + 4.5 | 37.9 | 23.5 | 5.22 | +0.29 | 10.0 |
| Halifax, N. S. | 29.94 | 30.05 | +.11 | 33.8 | + 4.8 | 40.8 | 26.8 | 4.25 | −1.21 | 8.6 |
| Grand Manan, N. B. | 29.98 | 30.03 | +.10 | 35.1 | + 5.3 | 41.1 | 29.0 | 0.88 | −3.40 | 2 5 |
| Yarmouth, N. S. | 29.98 | 30.05 | +.10 | 35.5 | + 4.7 | 41.9 | 29.1 | 2.54 | −2.31 | 2.1 |
| Charlottetown, P. E. I. | 29.98 | 30.02 | +.12 | 30.1 | + 4.7 | 35.5 | 24.7 | 2.70 | −0.51 | 10.6 |
| Chatham, N. B. | 30.02 | 30.04 | +.14 | 27.6 | + 4.6 | 36.4 | 18.9 | 2.18 | −1.29 | 13.7 |
| Father Point, Que. | 29.94 | 29.96 | +.06 | 25.2 | + 4.9 | 32.7 | 17.6 | 1.59 | −1.14 | 10.9 |
| Quebec, Que. | 29.65 | 29.99 | +.03 | 26.9 | + 5.7 | 34.7 | 19.1 | 2.72 | −0.54 | 12.1 |
| Montreal, Que. | 29.77 | 29.99 | −.01 | 33.8 | +10.0 | 41.0 | 26.6 | 1.59 | −2.20 | 5.1 |
| Stonecliffe, Ont * | 29.35 | 29.98 | −.03 | 29.3 | +10.3 | 42.5 | 16.0 | 0.78 | −1.28 | 3.0 |
| Ottawa, Ont. | 29.72 | 30.06 | +.05 | 33.2 | +11.7 | 41.3 | 25.1 | 1.98 | −0.74 | 10.8 |
| Kingston, Ont. | 29.72 | 30.04 | +.03 | 34.8 | + 9.2 | 42.7 | 26.9 | 1.98 | −0.66 | 6.9 |
| Toronto, Ont. | 29.65 | 30.04 | +.02 | 38.8 | +11.5 | 47.6 | 30.1 | 0.66 | −1.98 | 0.8 |
| White River, Ont. | 28.58 | 29.93 | −.10 | 27.3 | +15.1 | 39.4 | 15.1 | 0.13 | −1.25 | 0.8 |
| Port Stanley, Ont. | 29.41 | 30.07 | +.04 | 37.0 | + 9.8 | 45.2 | 28.7 | 0.60 | −2.28 | 1.0 |
| Southampton, Ont. | 29.33 | ..... | ..... | 36.4 | +11.7 | 46.1 | 26.6 | 0.95 | −1.70 | 5.1 |

| Stations. | Pressure. Actual, reduced to mean of 24 hours. | Pressure. Sea level, reduced to mean of 24 hours. | Pressure. Departure from normal. | Temperature. Mean. | Temperature. Departure from normal. | Temperature. Mean maximum. | Temperature. Mean minimum. | Precipitation. Total. | Precipitation. Departure from normal. | Precipitation. Total snowfall. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Ins.* | *Ins.* | *Ins.* | ° | ° | ° | ° | *Ins.* | *Ins.* | *Ins.* |
| Parry Sound, Ont. | 29.30 | 30.01 | −.01 | 32.5 | +11.4 | 43.2 | 21.8 | 1.64 | −0.59 | 12.5 |
| Port Arthur, Ont. | 29.21 | 29.94 | −.11 | 33.7 | +16.9 | 45.2 | 22.2 | 0.23 | −0.74 | 0.4 |
| Winnipeg, Man. | 29.09 | 29.95 | −.14 | 34.1 | +21.8 | 44.9 | 23.3 | 1.65 | −0.52 | 3.0 |
| Minnedosa, Man. | 28.08 | 29.93 | −.13 | 34.5 | +22.0 | 46.5 | 22.6 | 0.82 | −0.17 | 1.0 |
| Qu' Appelle, Assin. | 27.62 | 29.90 | −.14 | 36.0 | +21.1 | 47.0 | 25.0 | 1.77 | +1.00 | 9.0 |
| Medicine Hat, Alberta | 27.65 | 29.94 | −.06 | 45.0 | +17.5 | 57.9 | 32.2 | 0.02 | −0.74 | 0.2 |
| Swift Current, Sask. | 27.36 | 29.96 | −.06 | 40.6 | +18.6 | 52.0 | 29.3 | 0.06 | −0.75 | 0.6 |
| Calgary, Alberta | 26.34 | 29.90 | −.05 | 39.9 | +13.7 | 52.3 | 27.4 | 1.12 | −0.40 | 2.0 |
| Banff, Alberta | ..... | ..... | ..... | 34.2 | +14.0 | 43.4 | 24.9 | 1.50 | +0.18 | 15.9 |
| Edmonton, Alberta | 27.58 | 29.90 | −.06 | 36.6 | +12.4 | 52.0 | 21.2 | 0.77 | +0.05 | 7.7 |
| Prince Albert, Sask. | 28.30 | 29.89 | −.19 | 32.0 | +20.0 | 42.6 | 21.3 | 0.31 | −0.46 | 3.1 |
| Battleford, Sask | 28.14 | 29.90 | −.16 | 34.4 | +21.3 | 47.1 | 21.7 | 0.02 | −0.44 | 0.2 |
| Kamloops, B. C. | 28.66 | 29.94 | +.02 | 46.5 | +10.4 | 57.1 | 35.9 | 0.18 | −0.39 | 0.2 |
| Victoria, B. C. | 29.96 | 30.06 | +.09 | 46.1 | + 4.2 | 52.4 | 39.8 | 2.37 | −0.75 | T. |
| Barkerville, B. C. | 25.54 | 29.88 | .00 | 32.0 | + 5.9 | 40.1 | 24.0 | 1.30 | −0.59 | 13.0 |
| Dawson, Yukon | 28.64 | ..... | ..... | 5.7 | ..... | 17.3 | − 5.9 | 0.68 | ..... | 5.2 |
| Hamilton, Bermuda | 29.99 | 30.16 | +.08 | 64.3 | + 2.1 | 69.2 | 59.5 | 2.02 | −3.11 | 0.0 |

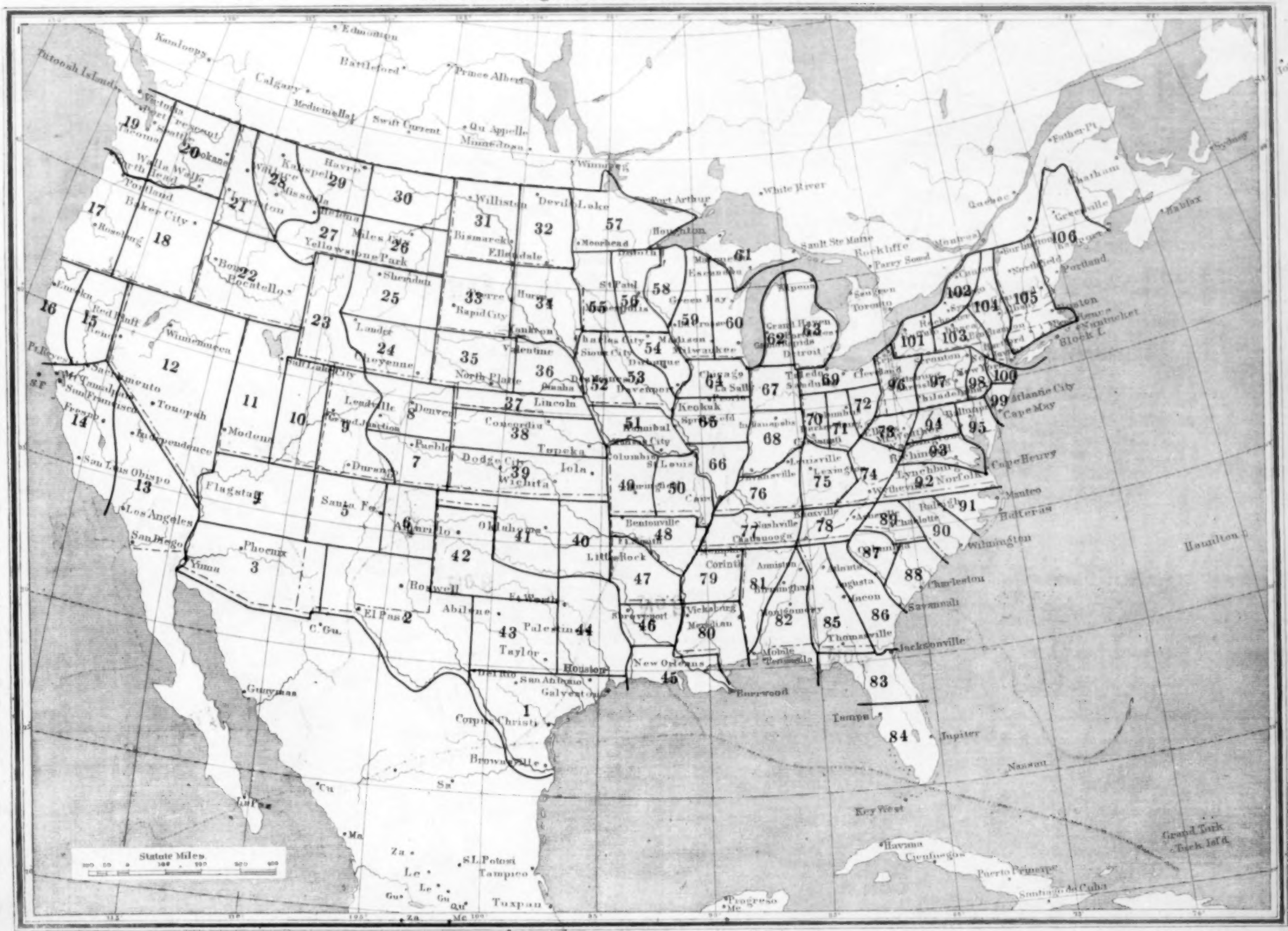
*Name changed from Rockliffe.

Climatological Districts of the United States.

## Climatological Districts of the United States.

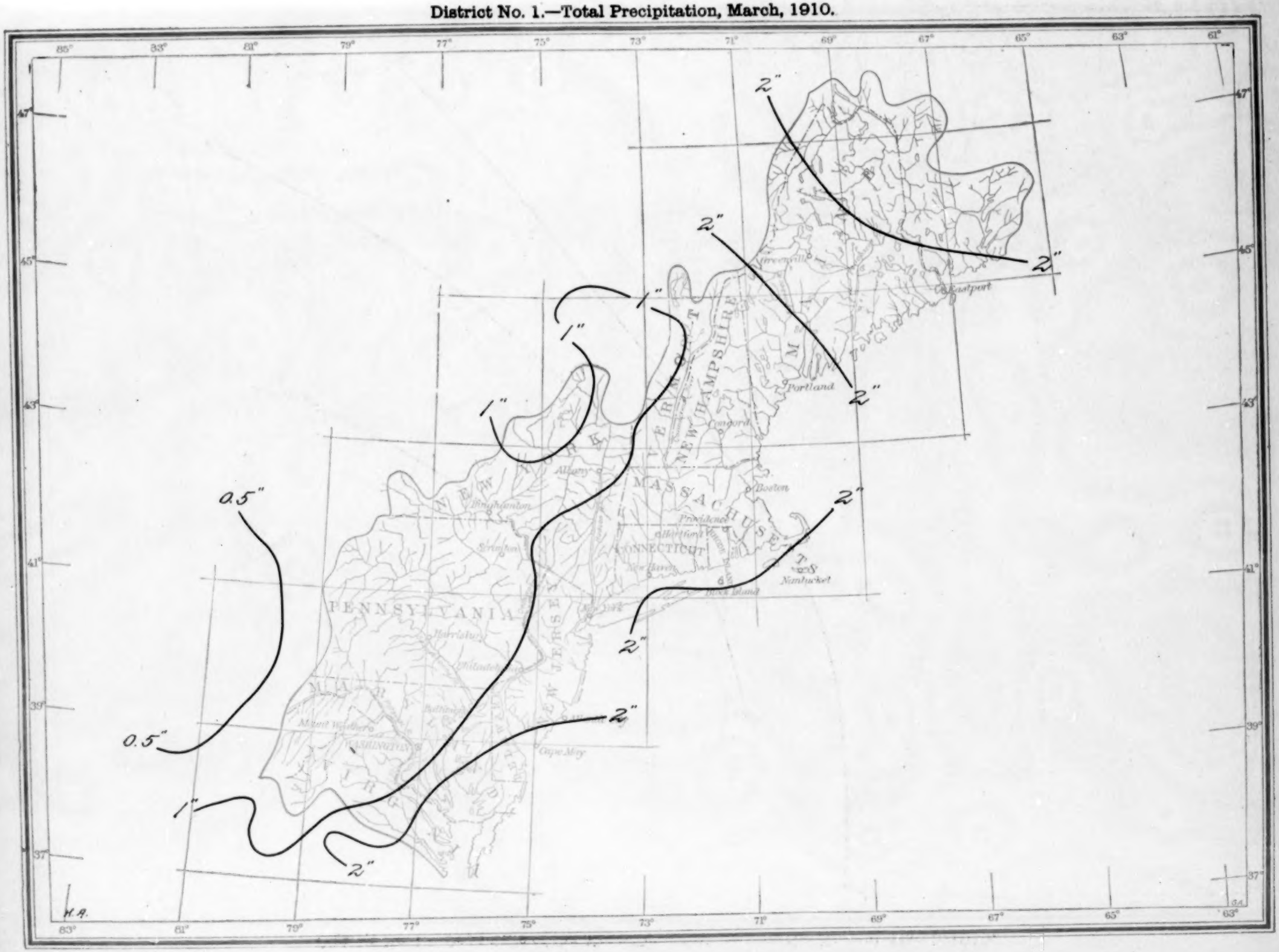


# 106 Climatological Sections in the United States.

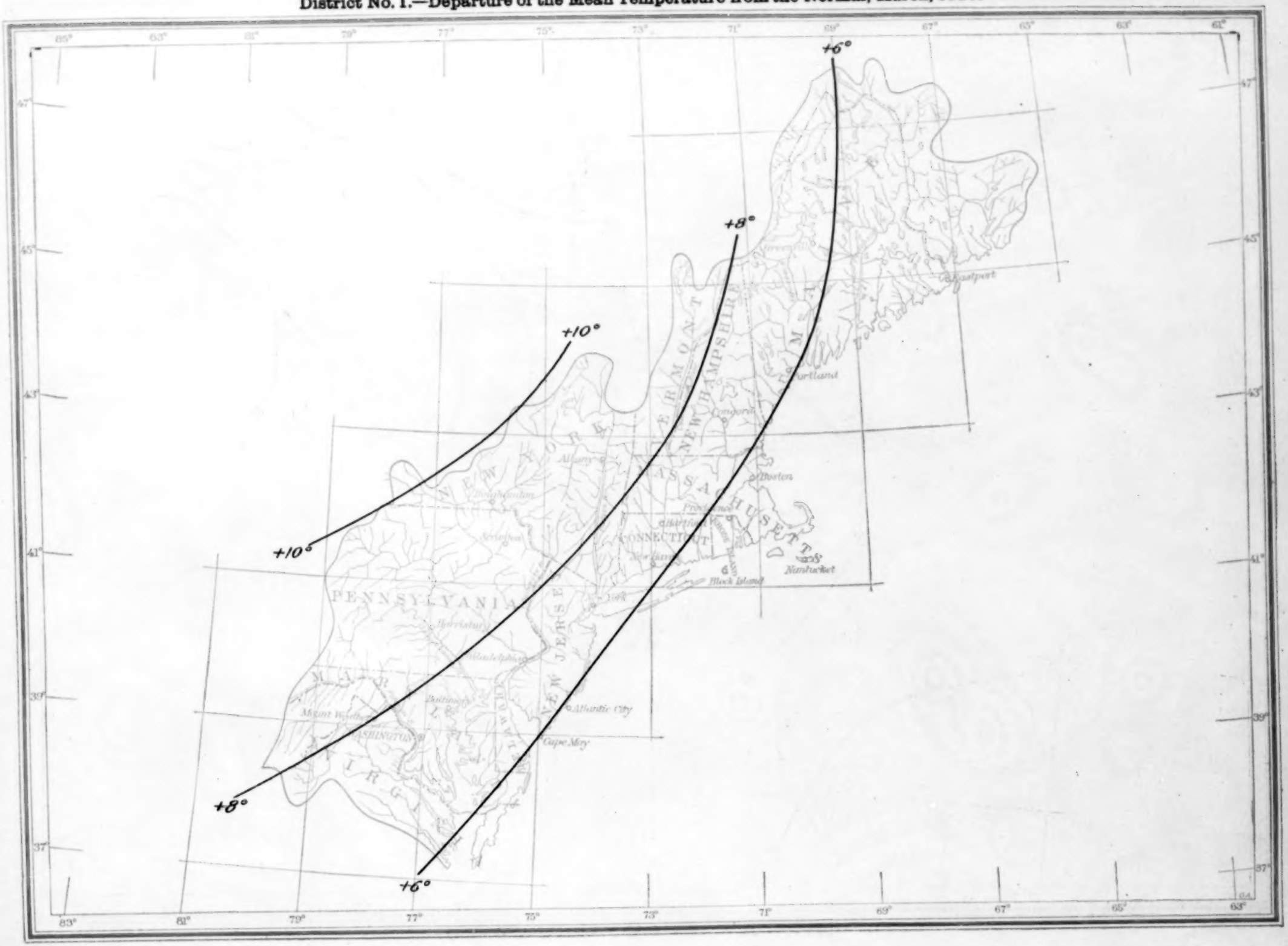


Mexico  Vera Cruz

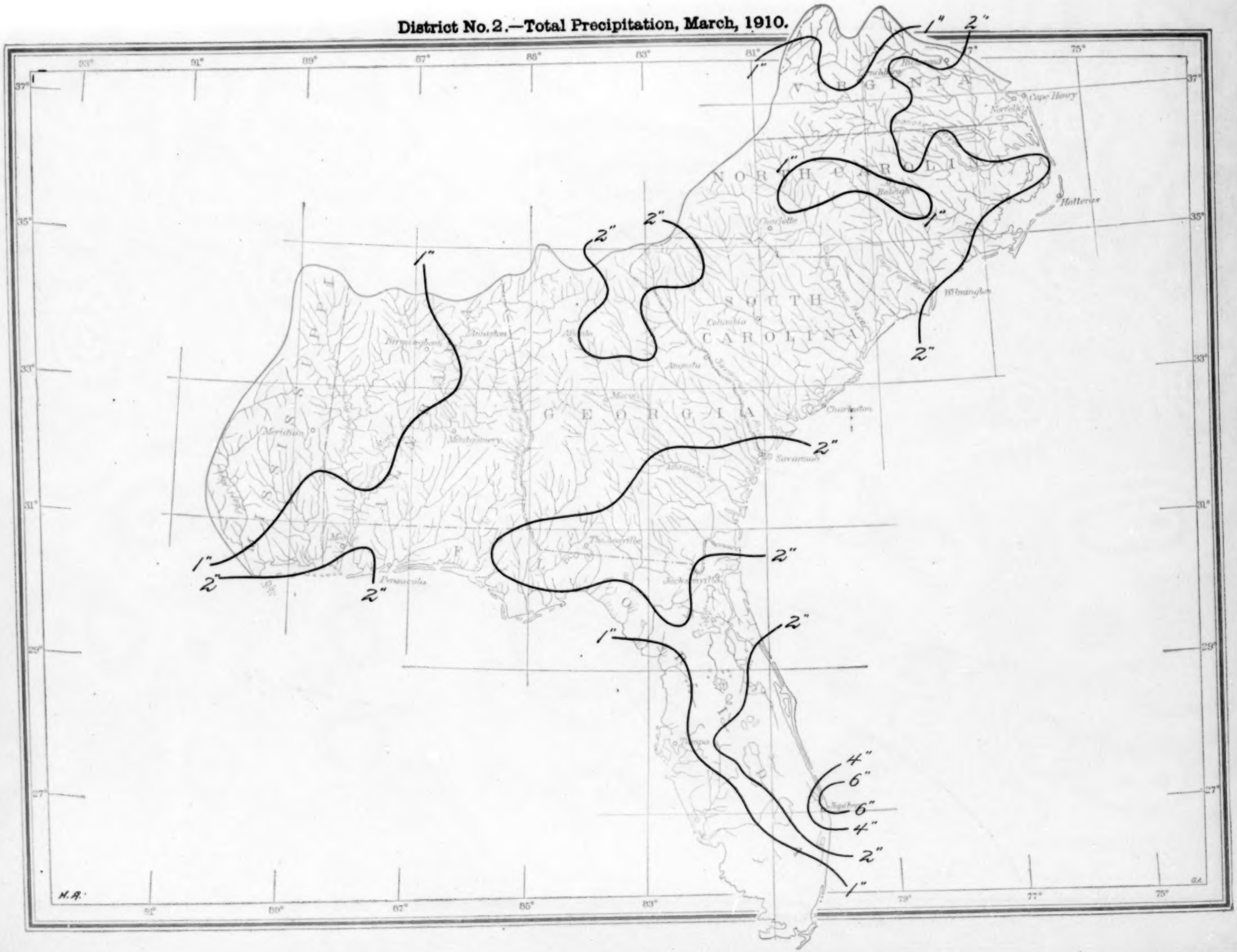
## District No. 1.—Total Precipitation, March, 1910.



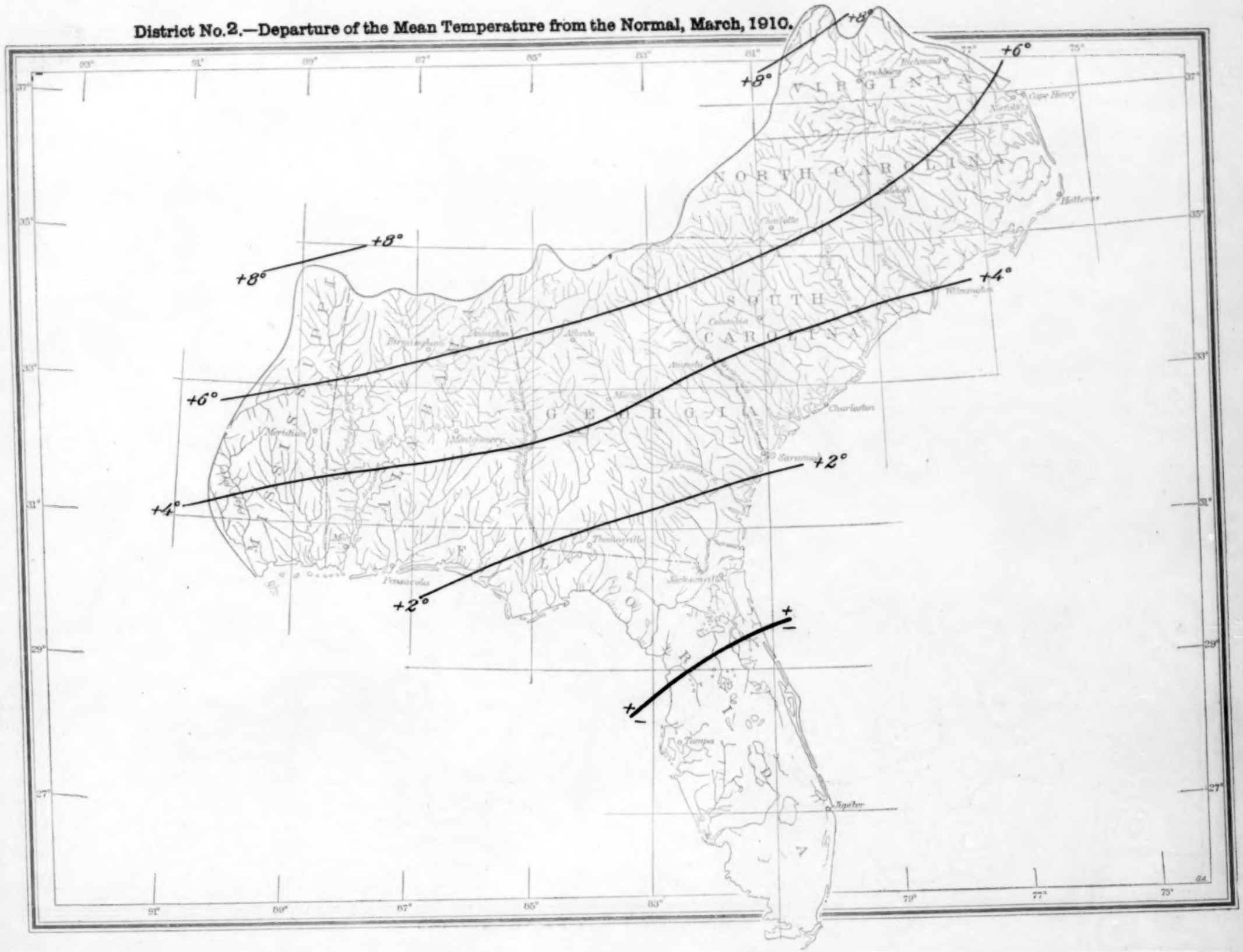
District No. 1.—Departure of the Mean Temperature from the Normal, March, 1910.


+6°
+8°
+10°
+10°
+8°
+6°
PENNSYLVANIA
NEW JERSEY
MARYLAND
DELAWARE
CONNECTICUT
MASSACHUSETTS
Harrisburg
Philadelphia
Baltimore
Atlantic City
Cape May
Albany
Boston
Nantucket
Block Island
Portland
Montpelier
Concord
Burlington
Augusta
Mount Washington
Binghamton
Scranton
Dover
New London
Newport
Provincetown
Northfield
Greenfield
Worcester
Pittsfield
Springfield
Hartford
New Haven
Bridgeport
Norwich
Middletown
Waterbury
Danbury
Meriden
Rutland
Bennington
Brattleboro
Windsor
Barre
St. Johnsbury
Lancaster
Reading
Allentown
Wilkesbarre
Williamsport
Altoona
Pittsburgh
Erie
Oil City
Titusville
Meadville
Franklin
Johnstown
Uniontown
Washington
Wheeling
Parkersburg
Charleston
Huntington
Clarksburg
Fairmont
Morgantown
Martinsburg
Cumberland
Hagerstown
Frederick
Annapolis
Baltimore
Salisbury
Ocean City
Dover
Wilmington
Trenton
Camden
Atlantic City
Cape May
Newark
Jersey City
Paterson
Elizabeth
Hoboken
Orange
Plainfield
Perth Amboy
Asbury Park
Long Branch
Toms River
Freehold
Red Bank
Princeton
Trenton
Somerville
Flemington
Phillipsburg
Easton
Bethlehem
Allentown
Reading
Pottsville
Harrisburg
Lancaster
Chambersburg
Gettysburg
York
Carlisle
Mechanicsburg
Lebanon
Hanover
Frederick
Cumberland
Hagerstown
Martinsburg
Keyser
Oakland
Grantsville
Cumberland
Connellsville
Uniontown
Greensburg
Pittsburgh
Washington
Wheeling
Parkersburg
Charleston
Huntington
Clarksburg
Fairmont
Morgantown
Oil City
Titusville
Meadville
Franklin
Johnstown
Altoona
Williamsport
Wilkesbarre
Scranton
Binghamton
Albany
Utica
Syracuse
Rochester
Buffalo
Oswego
Watertown
Ogdensburg
Plattsburgh
Burlington
Montpelier
Barre
St. Johnsbury
Rutland
Bennington
Brattleboro
Windsor
Concord
Manchester
Nashua
Portsmouth
Dover
Laconia
Berlin
Lancaster
Gorham
Augusta
Portland
Bangor
Eastport
Calais
Houlton
Presque Isle
Caribou
Fort Kent
Madawaska
Grand Falls
Woodstock
Fredericton
St. John
Moncton
Amherst
Sackville
Shediac
Chatham
Newcastle
Campbellton
Dalhousie
Bathurst
Edmundston
Rimouski
Metapedia
Matapedia
Cascapedia
Gaspé
Percé
Mont Joli
Rivière du Loup
Cacouna
Trois Pistoles
Tadoussac
Chicoutimi
Roberval
Lake St. John
Quebec
Montmorency
Ste. Anne de Beaupré
Murray Bay
Baie St. Paul
Malbaie
Cap à l'Aigle
Ste. Agnes
Ste. Flavie
Metis
Matane
Mont Joli
Rivière du Loup
Cacouna
Trois Pistoles
Tadoussac
Chicoutimi
Roberval
Lake St. John
Quebec
Montmorency
Ste. Anne de Beaupré
Murray Bay
Baie St. Paul
Malbaie
Cap à l'Aigle
Ste. Agnes
Ste. Flavie
Metis
Matane
Gaspé
Percé

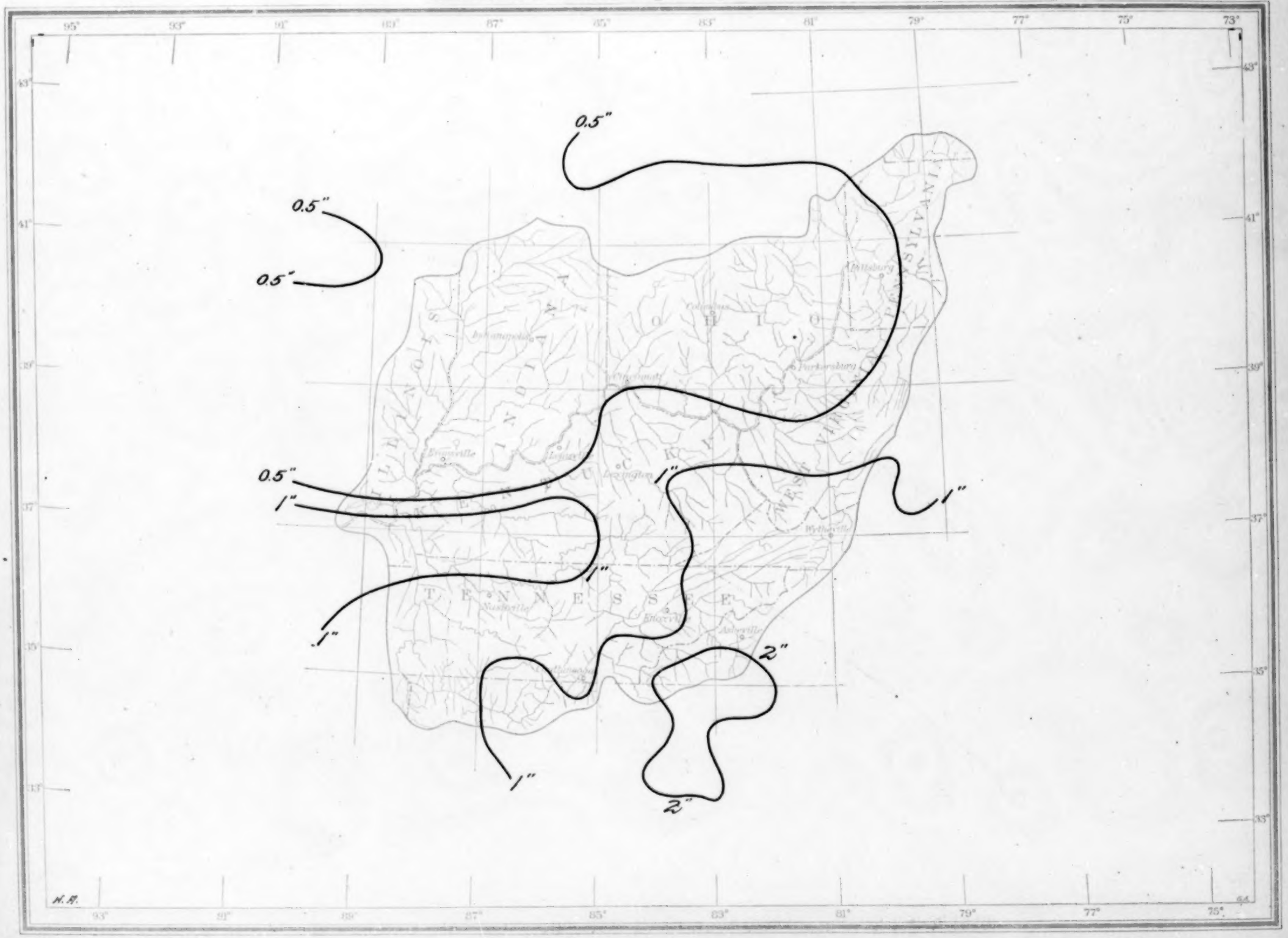
**District No. 2.—Total Precipitation, March, 1910.**



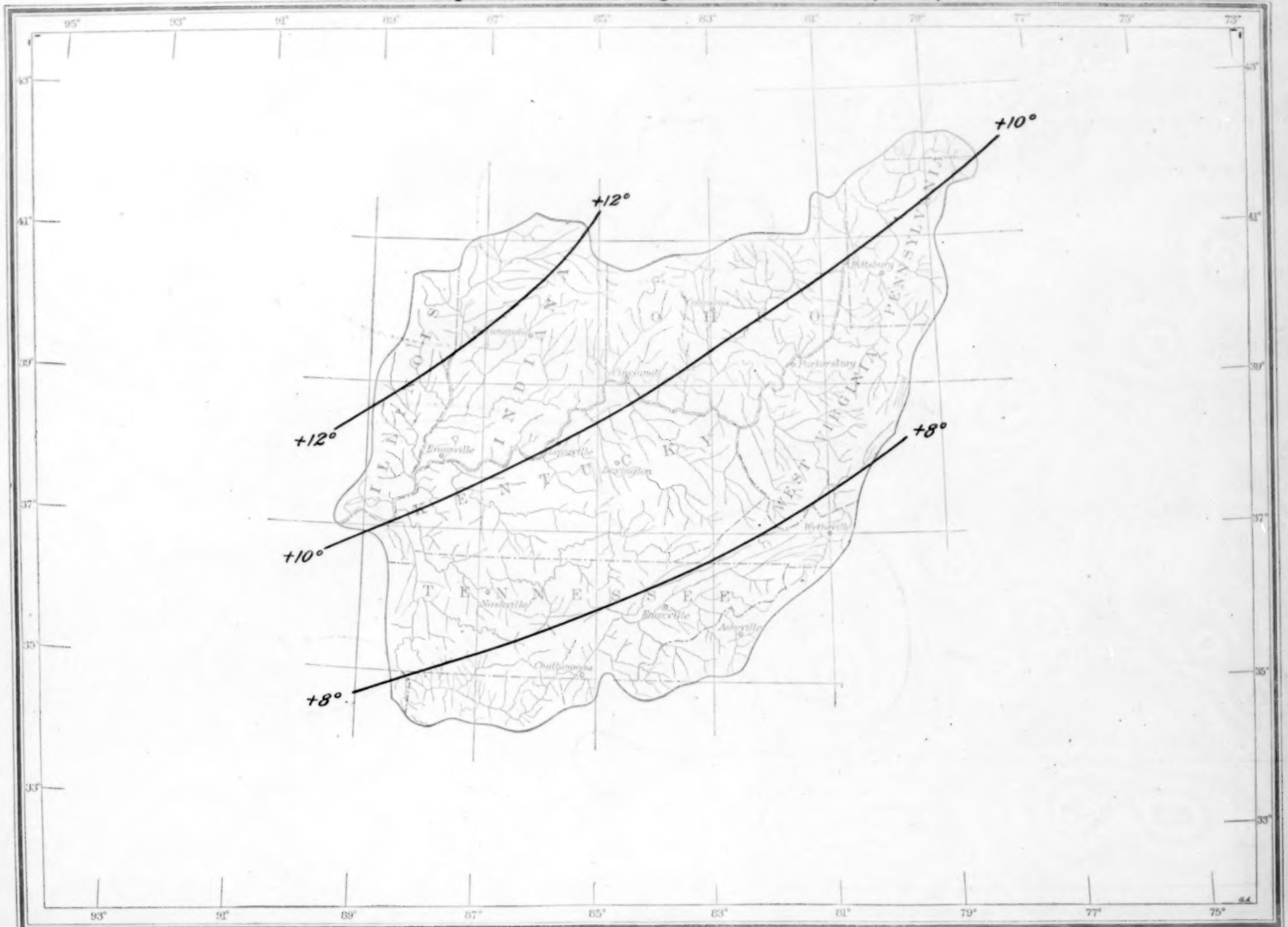
District No. 2.—Departure of the Mean Temperature from the Normal, March, 1910.



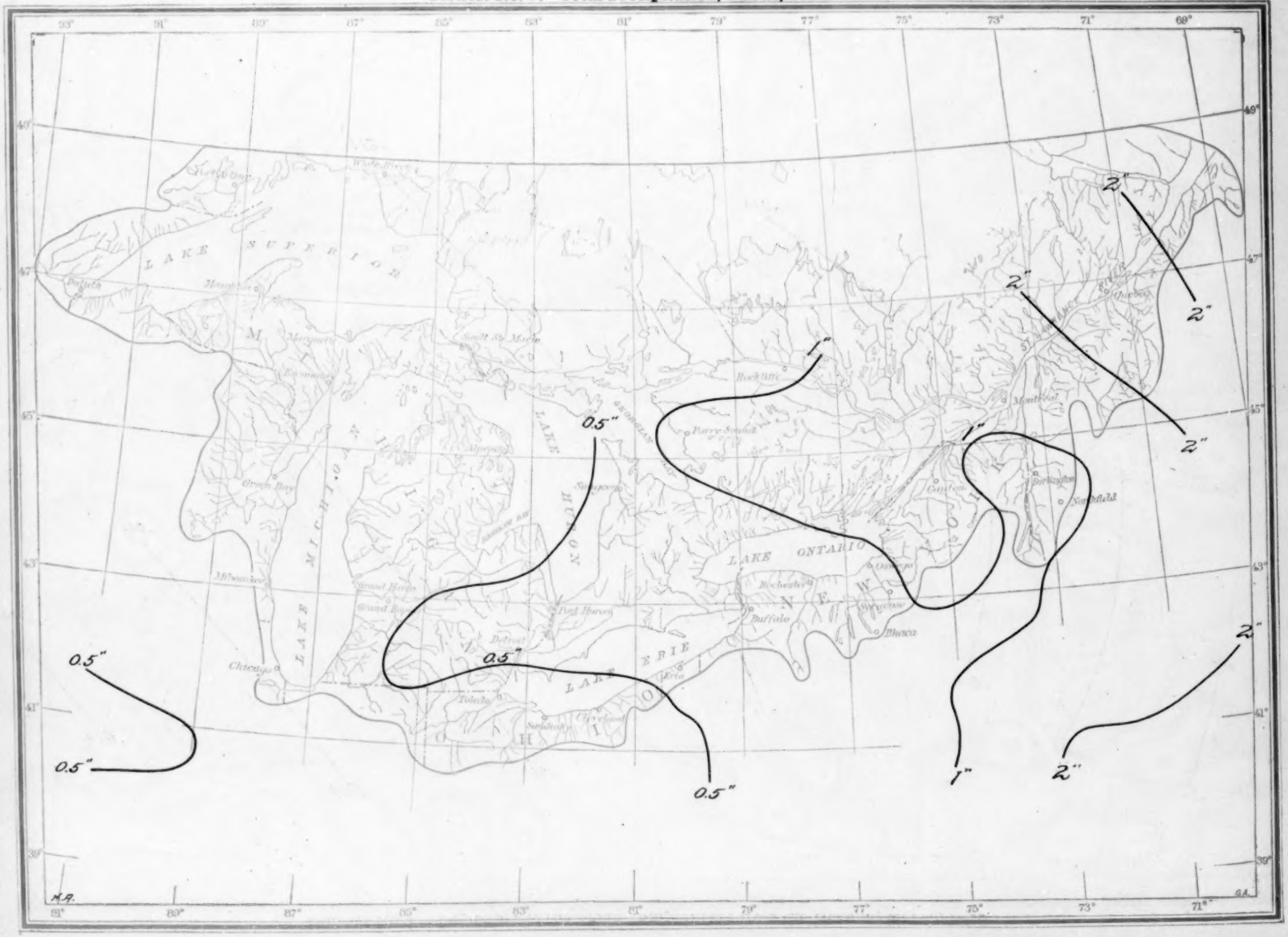
**District No. 3.—Total Precipitation, March, 1910.**



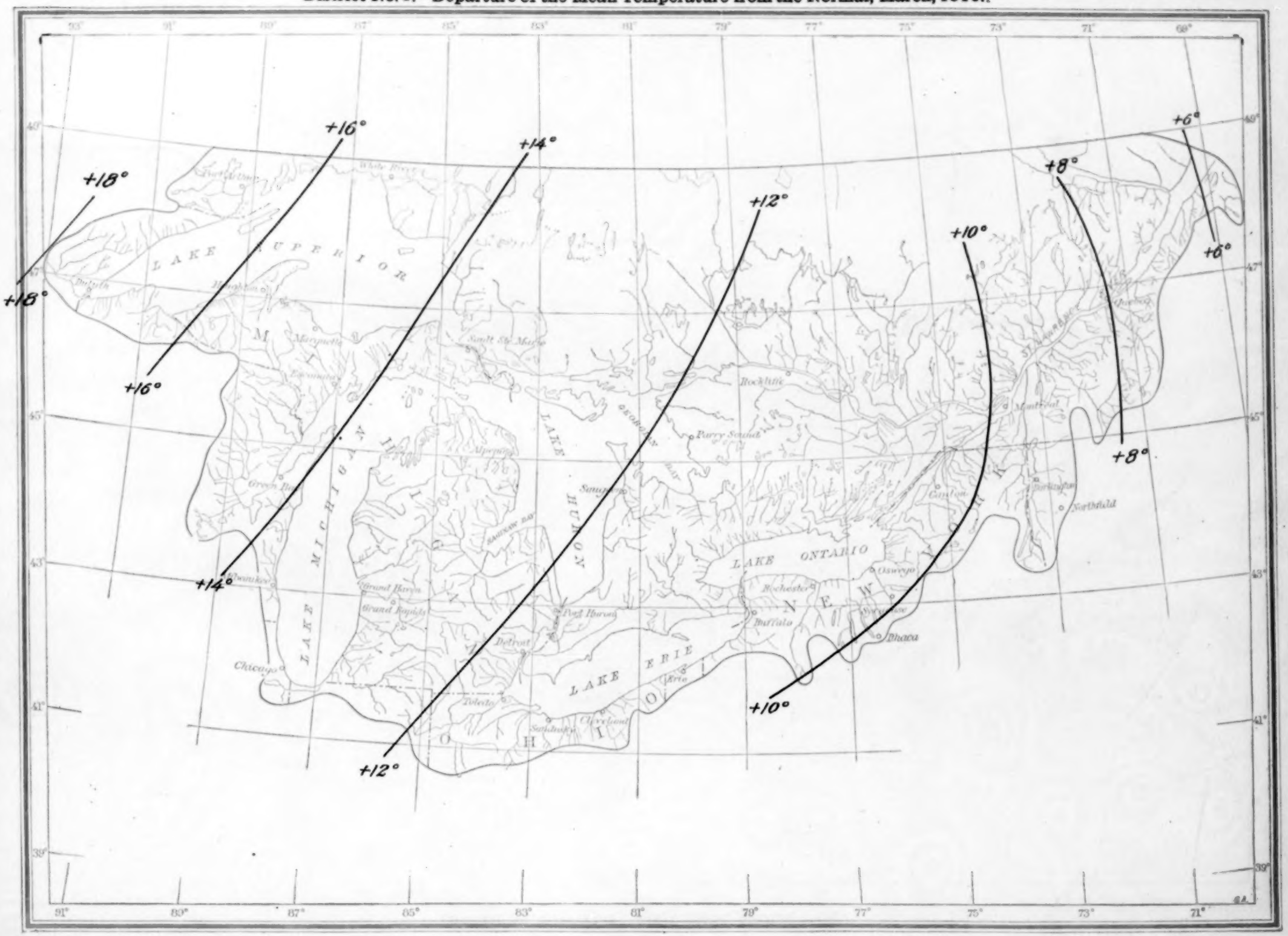
District No.3.—Departure of the Mean Temperature from the Normal, March, 1910.


+12°
+10°
+8°
+12°
+10°
+8°
95°
93°
91°
89°
87°
85°
83°
81°
79°
77°
75°
73°
43°
41°
39°
37°
35°
33°
Kentucky
Tennessee
Virginia
West Virginia
North Carolina
Frankfort
Lexington
Nashville
Knoxville
Asheville
Chattanooga
Wytheville
Bristol
Kingsport
Johnson City
Elizabethton
Winchester
Harrodsburg
Bowling Green
Hopkinsville
Clarksville
Columbia
Cookeville
Jamestown
Oneida
Huntsville
Fayetteville
Pulaski
Tullahoma
Shelbyville
Murfreesboro
Lebanon
Gallatin
Springfield
Clarksville
Dover
Paris
Union City
Martin
Dyersburg
Jackson
Trenton
Humboldt
Brownsville
Somerville
Bolivar
Selmer
Lexington
Huntingdon
Parsons
Waynesboro
Linden
Centerville
Hohenwald
Lawrenceburg
Pulaski
Fayetteville
Shelbyville
Tullahoma
Manchester
McMinnville
Sparta
Crossville
Wartburg
Oneida
Jamestown
Huntsville
Oak Ridge
Clinton
Maryville
Sevierville
Newport
Morristown
Greeneville
Rogersville
Kingsport
Bristol
Elizabethton
Johnson City
Erwin
Unicoi
Cleveland
Athens
Etowah
Madisonville
Sweetwater
Loudon
Kingston
Harriman
Rockwood
Dayton
Cleveland
Chattanooga
Lafayette
Gallatin
Hartsville
Carthage
Lebanon
Murfreesboro
Shelbyville
Tullahoma
Winchester
Manchester
McMinnville
Sparta
Cookeville

**District No. 4.—Total Precipitation, March, 1910.**

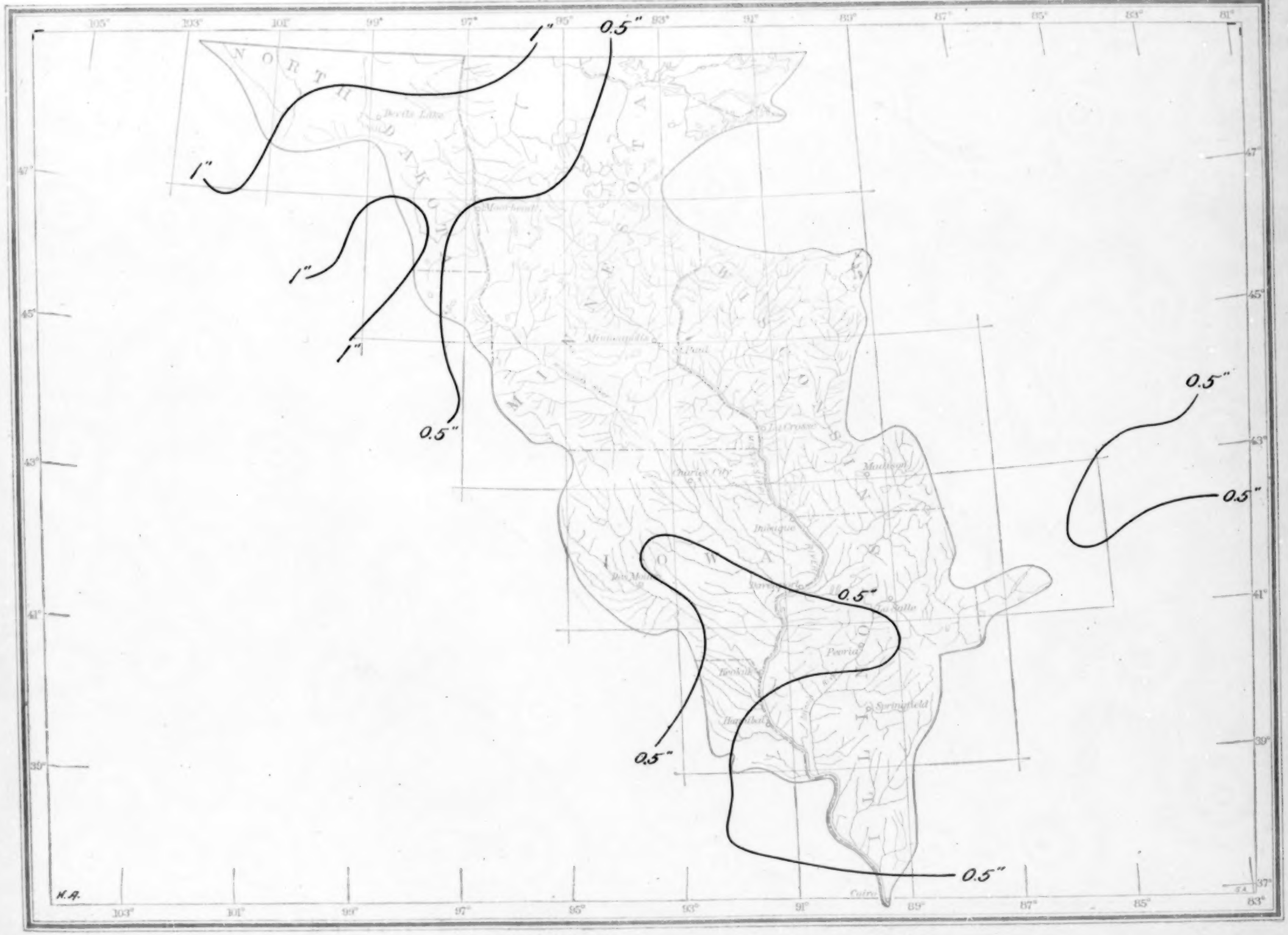


District No.4.—Departure of the Mean Temperature from the Normal, March, 1910..

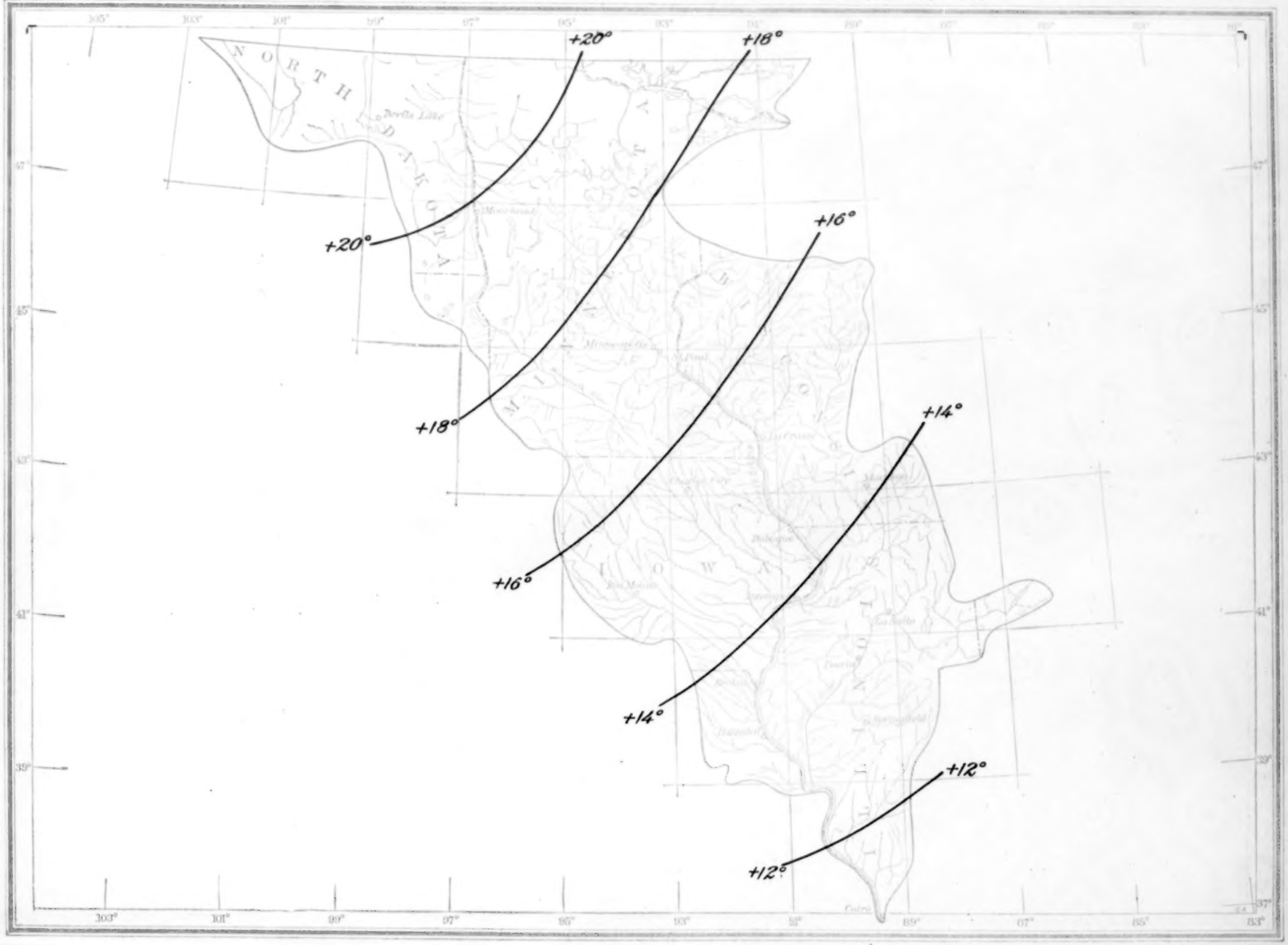



District No. 5.—Total Precipitation, March, 1910.

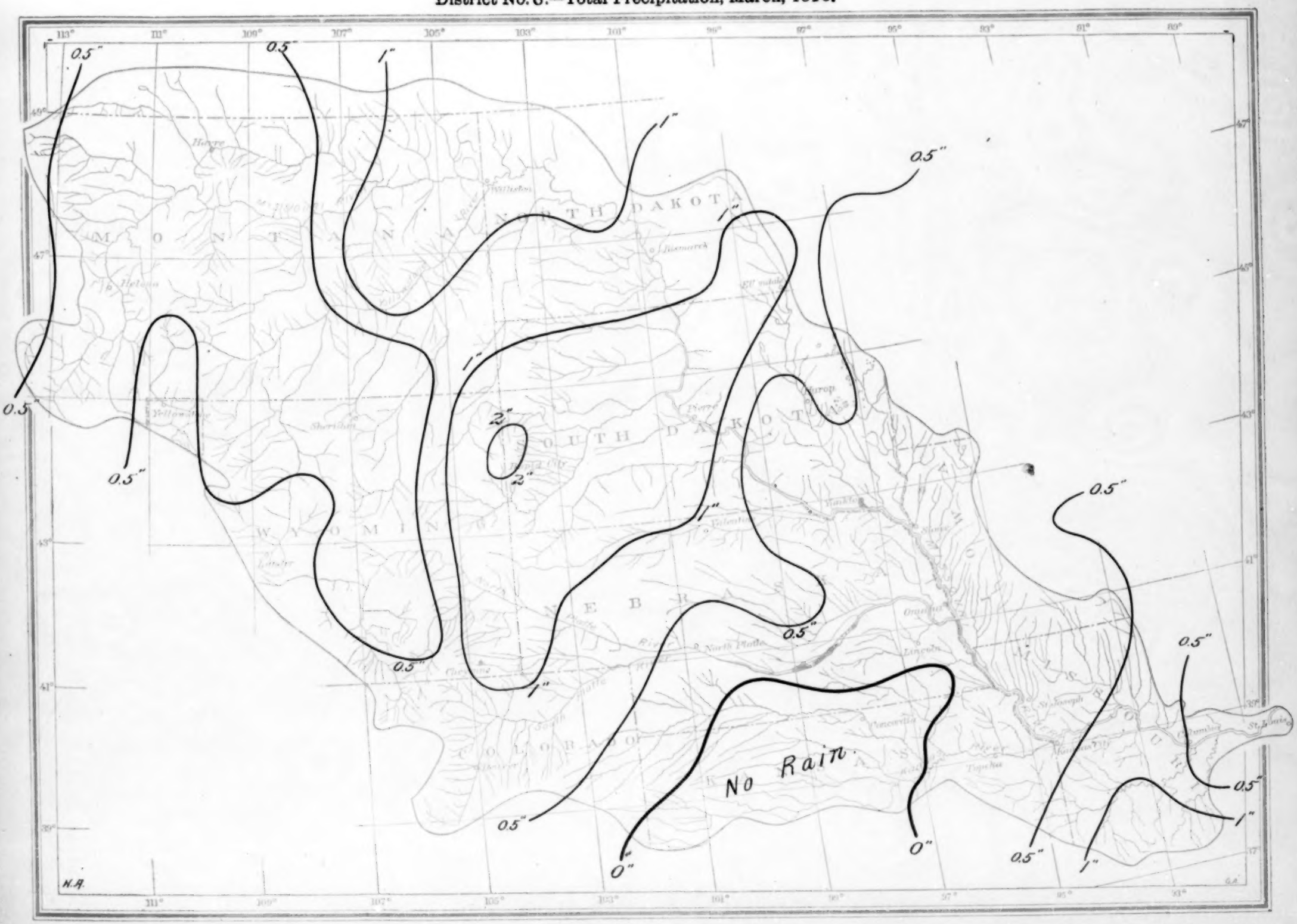
**District No. 5.—Total Precipitation, March, 1910.**



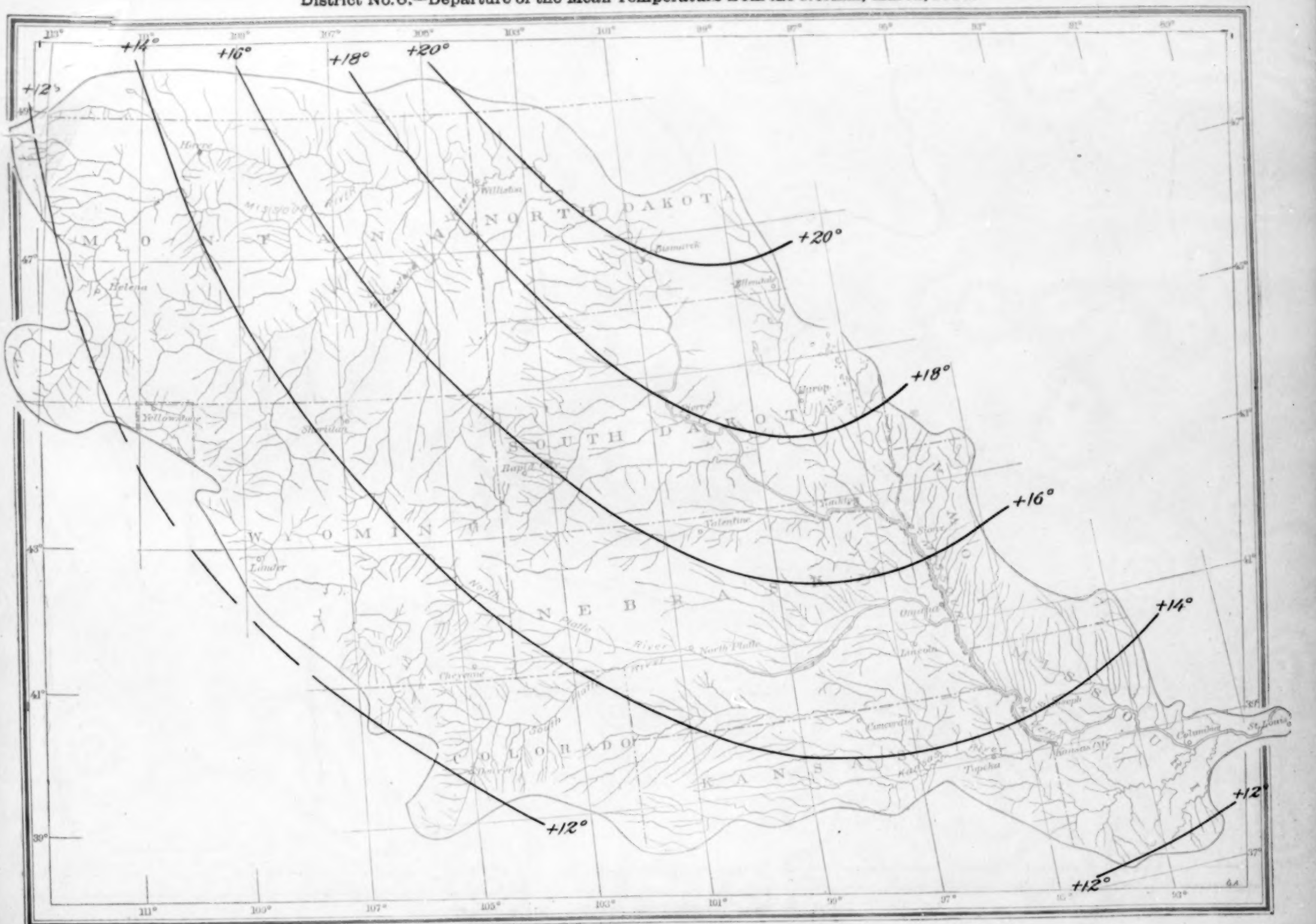
District No.5.—Departure of the Mean Temperature from the Normal, March, 1910.



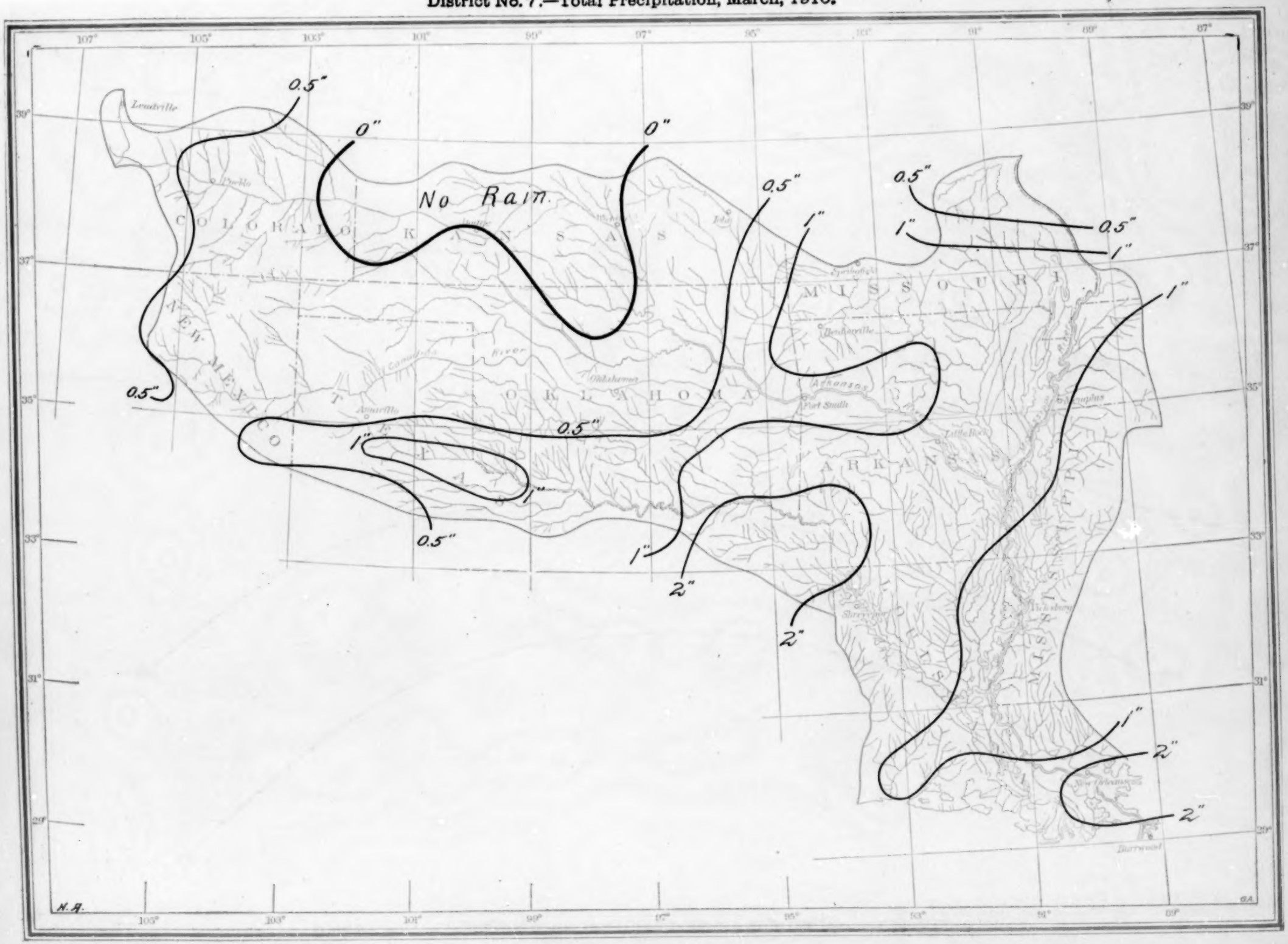
**District No. 6.—Total Precipitation, March, 1910.**


0.5"
0.5"
1"
1"
0.5"
0.5"
2"
2"
1"
1"
0.5"
0.5"
0.5"
0.5"
0.5"
1"
No Rain.
0"
0"
0.5"
1"
M O N T A N A
N O R T H D A K O T A
S O U T H D A K O T A
W Y O M I N G
N E B R
Helena
Bismarck
Pierre
Lincoln
Huron
Aberdeen
Watertown
Yankton
Sioux City
Valentine
Rapid City
Sheridan
Miles City
Glendive
Havre
Williston
Devils Lake
Grand Forks
Fargo
Jamestown
Minot
Dickinson
Oakes
Redfield
Mitchell
Sioux Falls
Norfolk
Omaha
Grand Island
North Platte
Scottsbluff
Alliance
Chadron
Broken Bow
Hastings
Kearney
Concordia
Beatrice
St. Joseph
St. Louis
Topeka
Kansas City
Ord
Aurora
Oakland
Tekamah
Falls City
Nebraska City
Auburn
Nemaha
Brownville
Table Rock
Pawnee City
Humboldt
Tecumseh
Wymore
Blue Springs
Beaver City
Red Cloud
Superior
Franklin
Holdrege
Minden
Lexington
Cozad
Gothenburg
Ogallala
Sidney
Kimball
Bridgeport
Chappell
Big Springs
Julesburg
Crawford
Harrison
Hemingford
Alliance
Gordon
Rushville
Chadron
Hay Springs

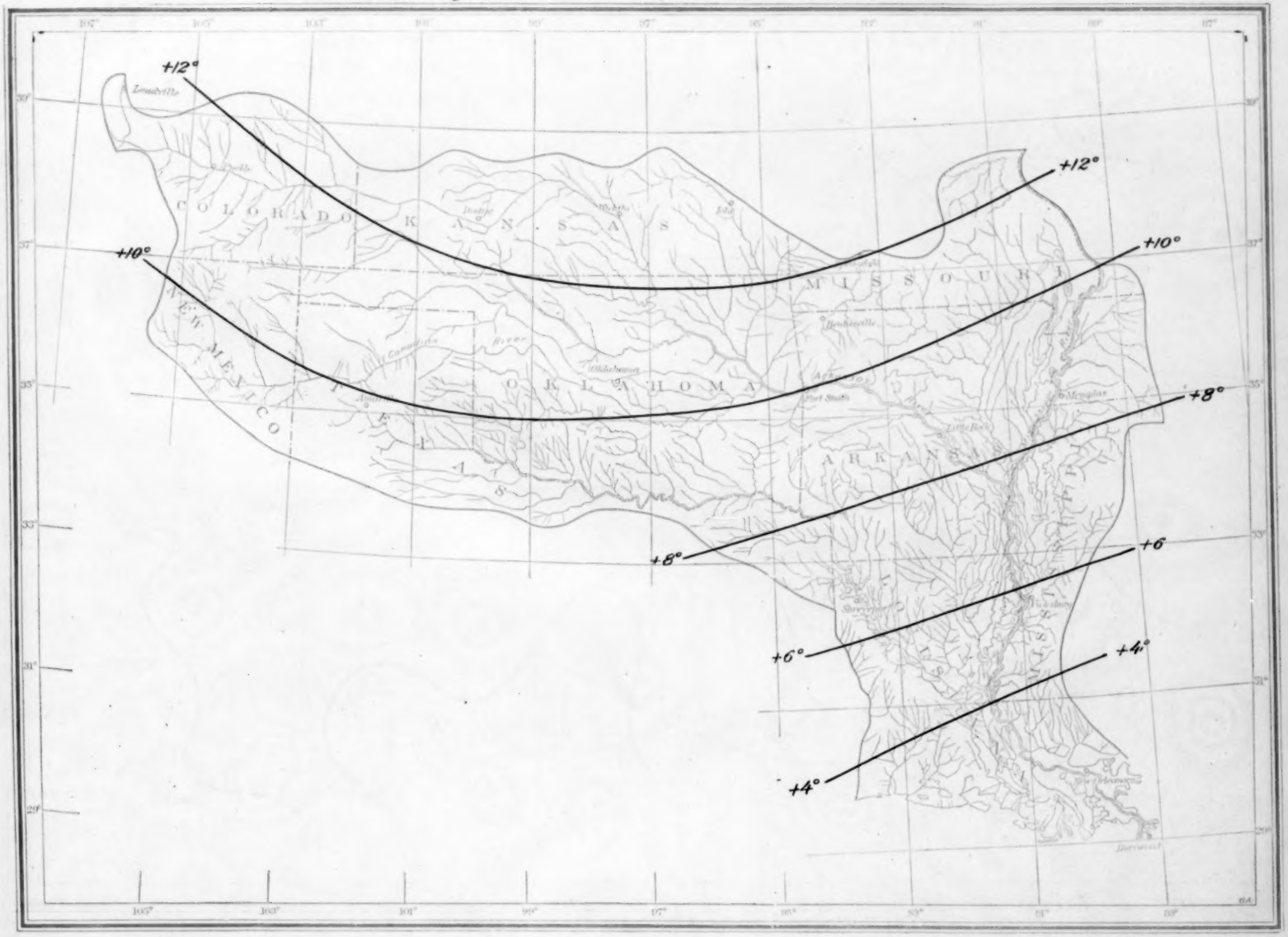
District No. 6.—Departure of the Mean Temperature from the Normal, March, 1910.



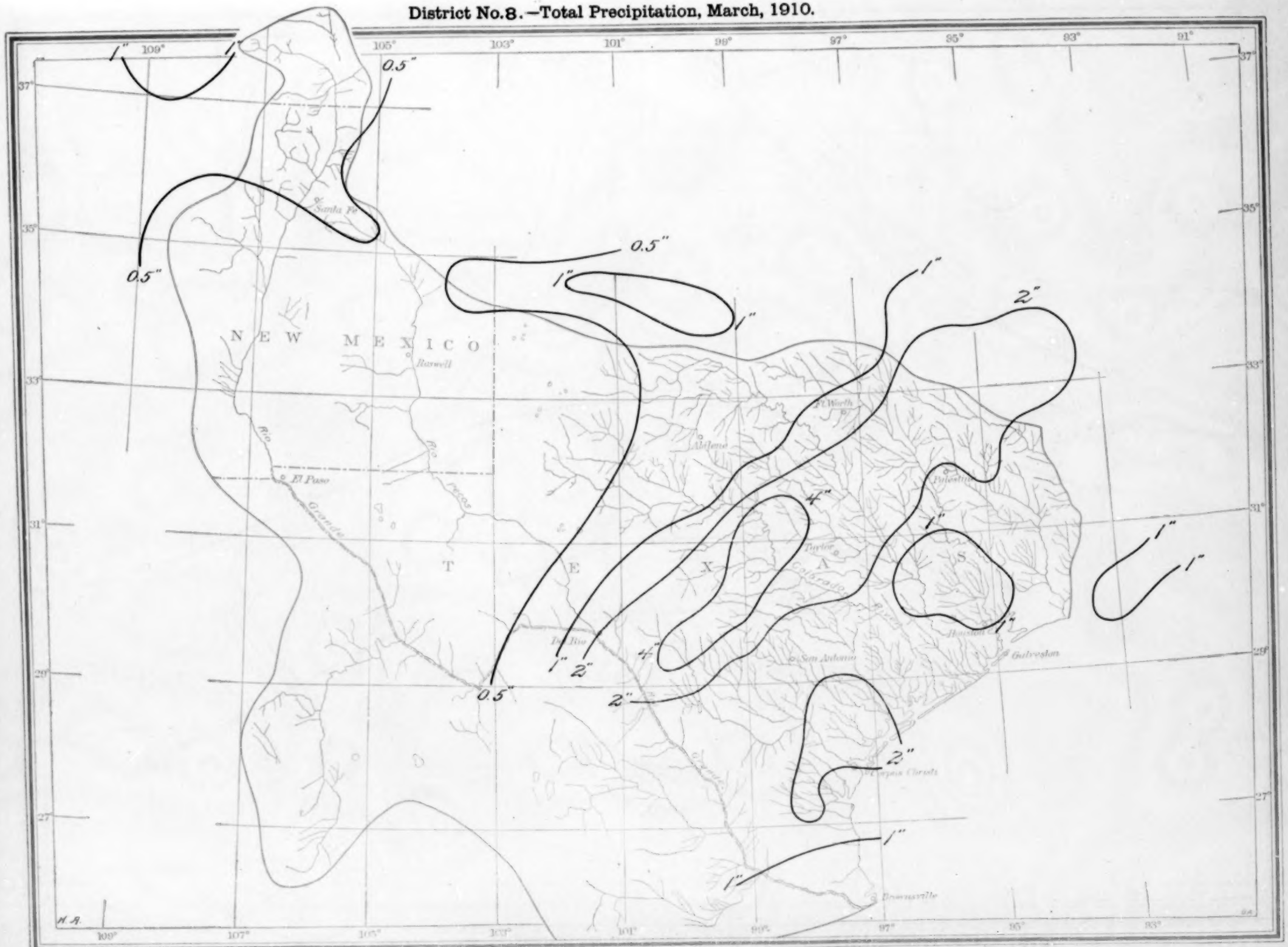
**District No. 7.—Total Precipitation, March, 1910.**



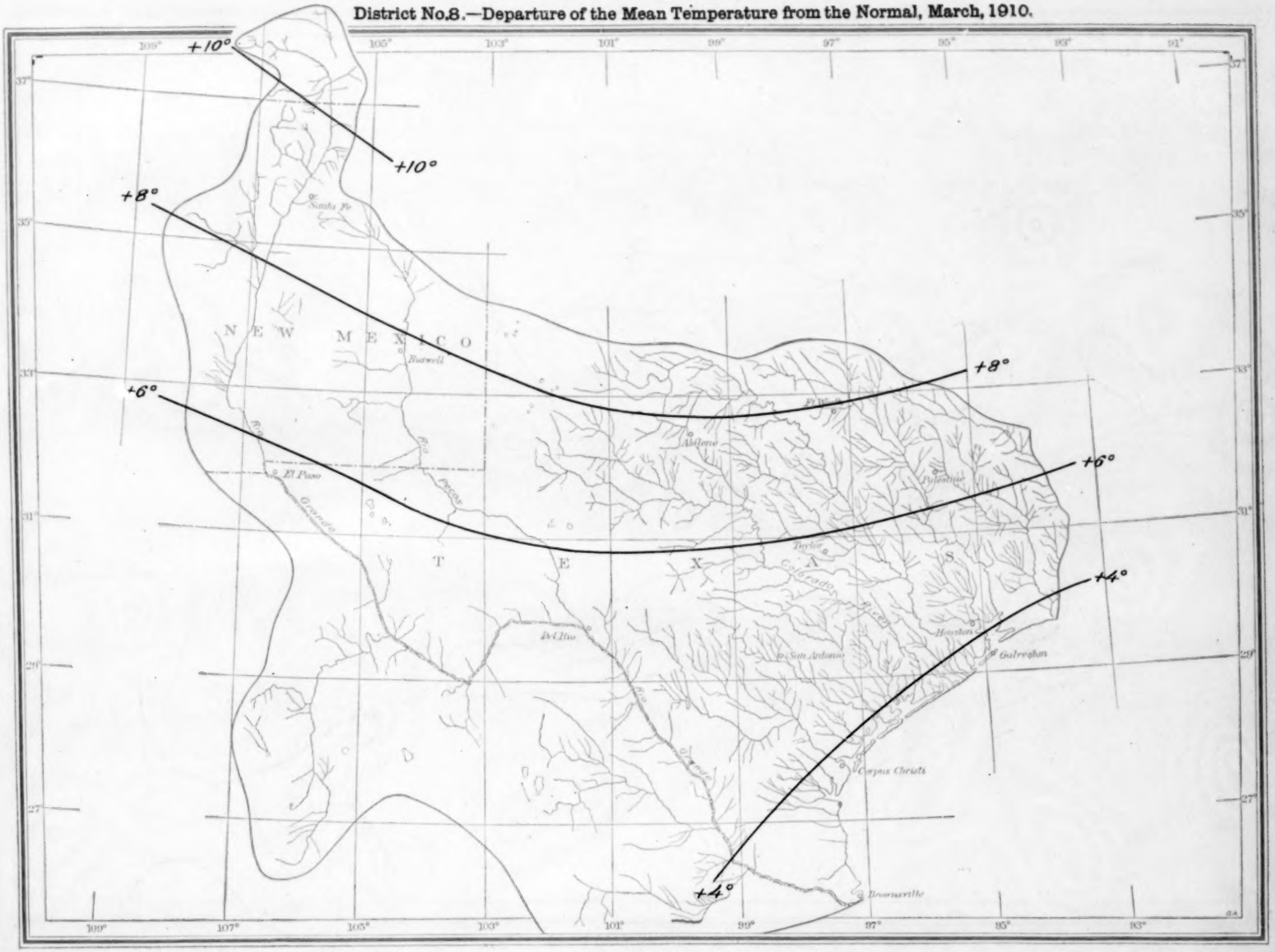
**District No.7.—Departure of the Mean Temperature from the Normal, March, 1910.**



**District No. 8.—Total Precipitation, March, 1910.**

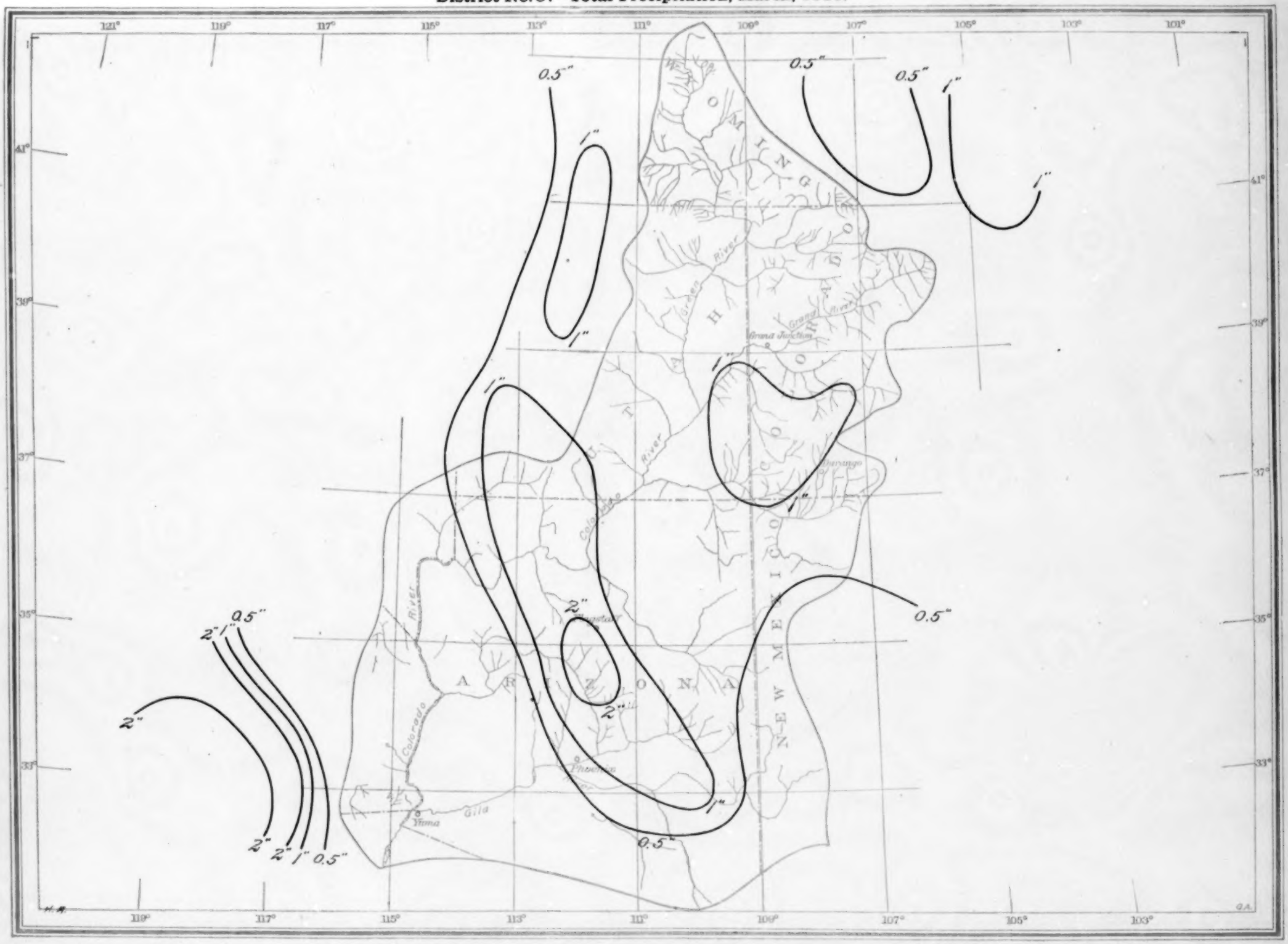


**District No.8.—Departure of the Mean Temperature from the Normal, March, 1910.**

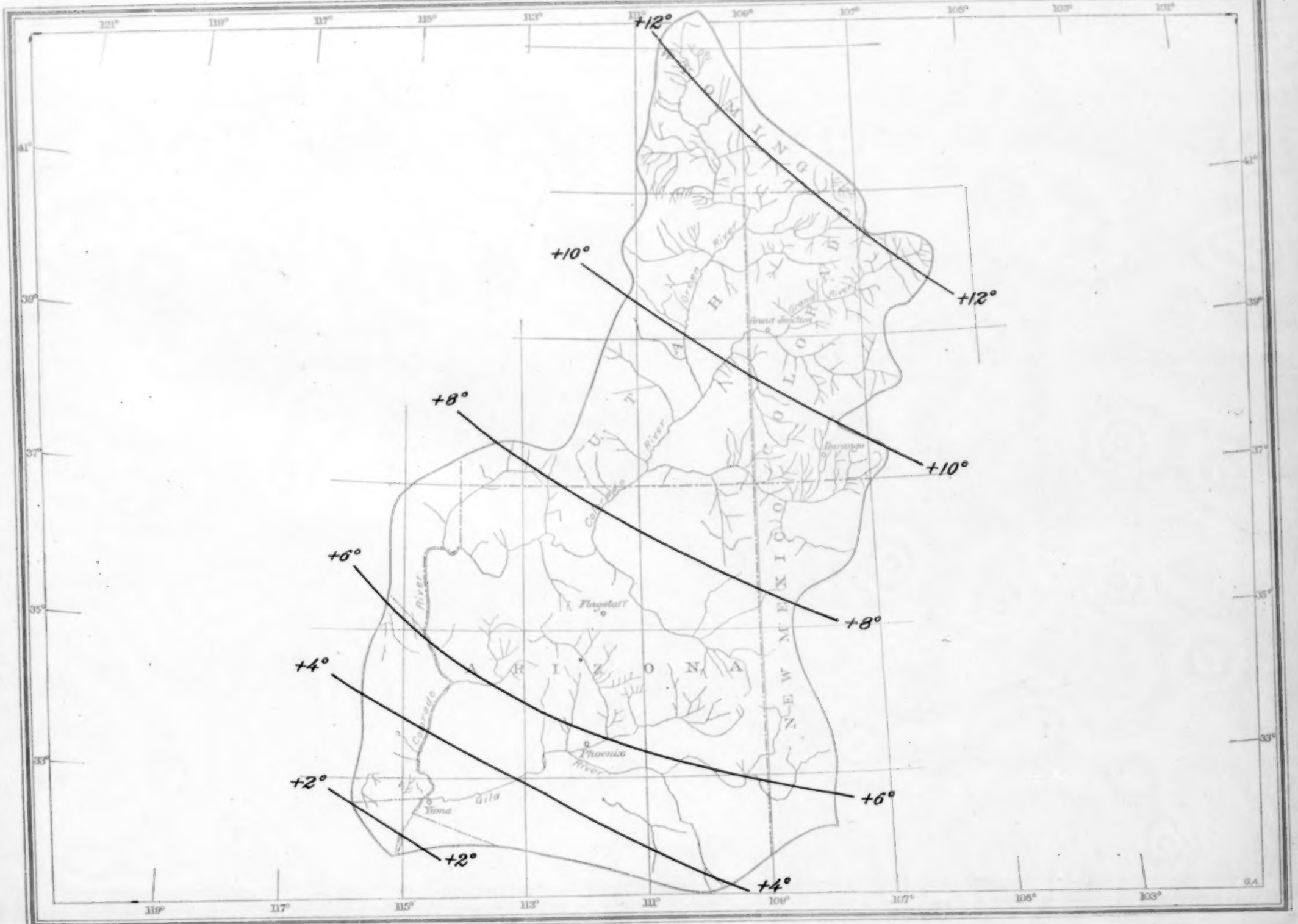



**District No. 9.—Total Precipitation, March, 1910.**

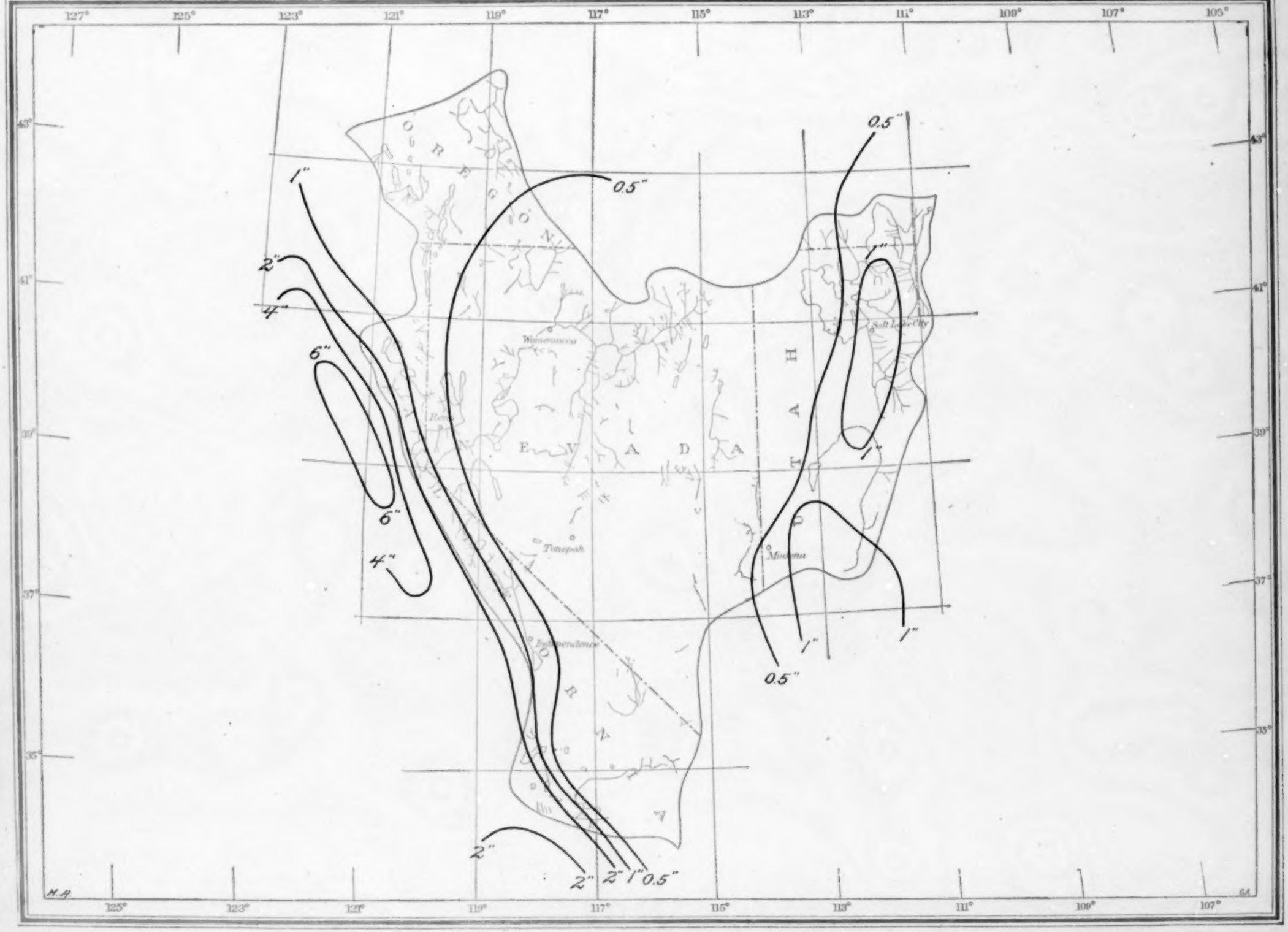
**District No. 9.—Total Precipitation, March, 1910.**



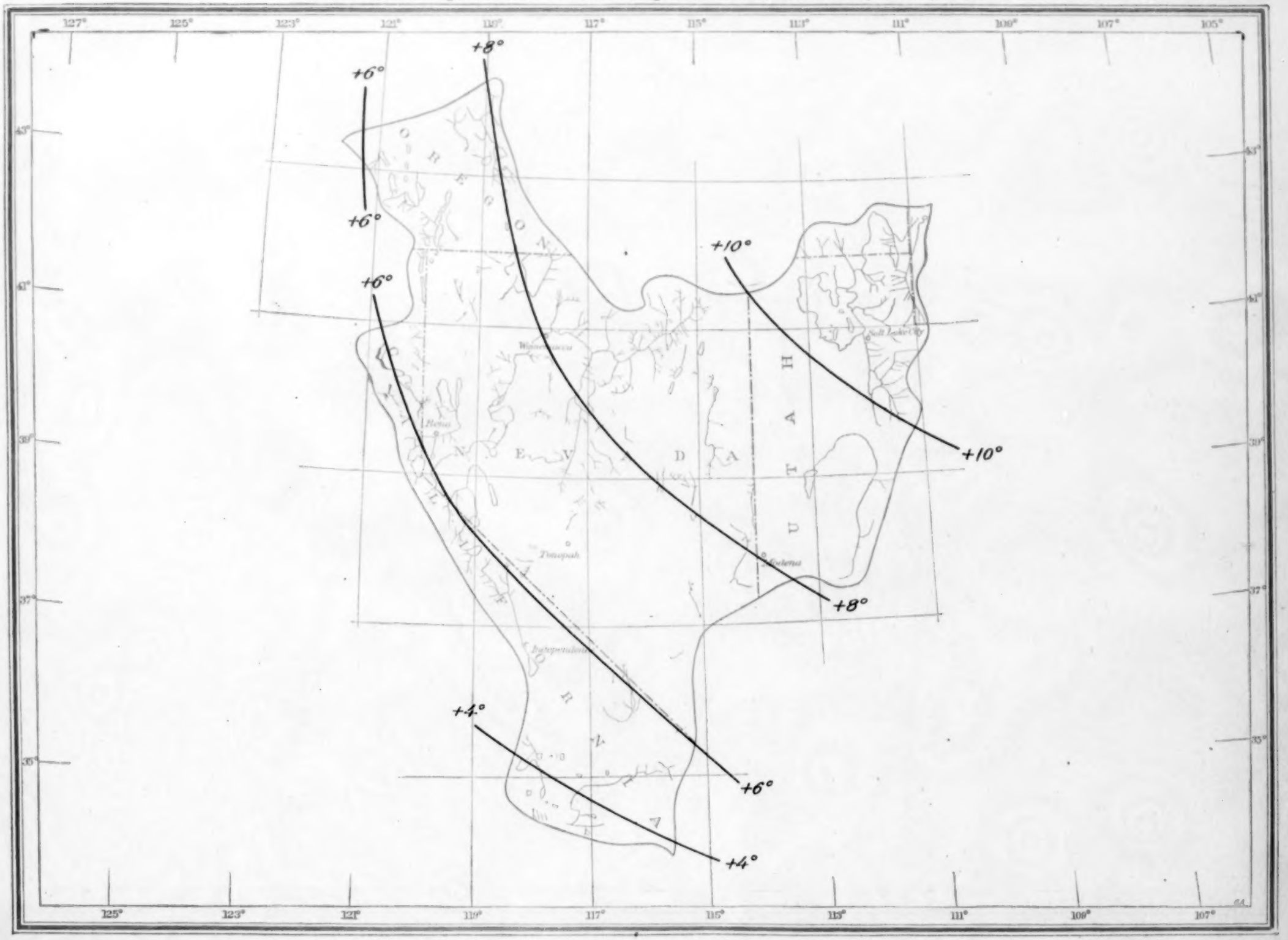
District No. 9.—Departure of the Mean Temperature from the Normal, March, 1910.



**District No.10—Total Precipitation, March, 1910.**

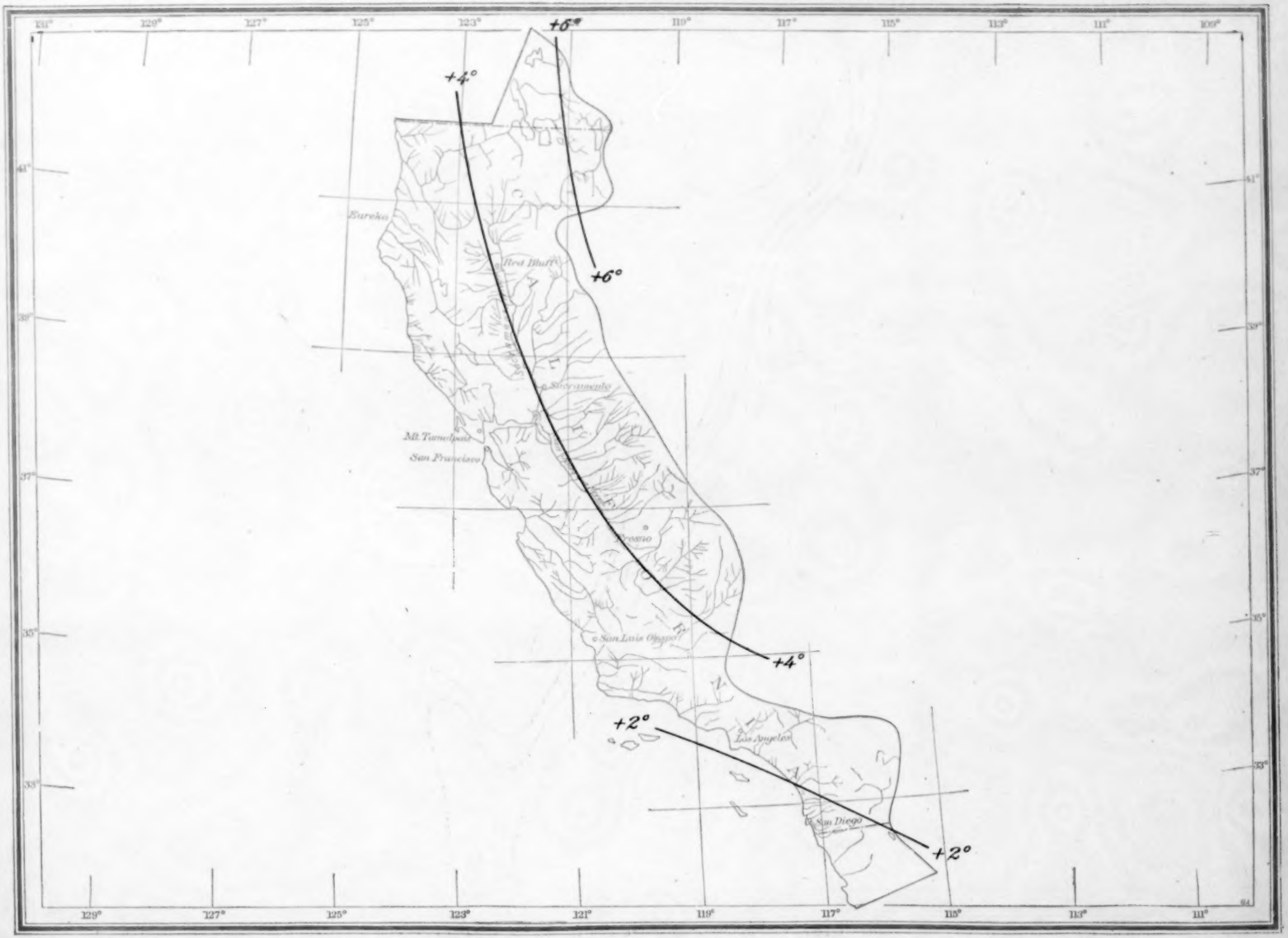


District No.10.–Departure of the Mean Temperature from the Normal, March, 1910.

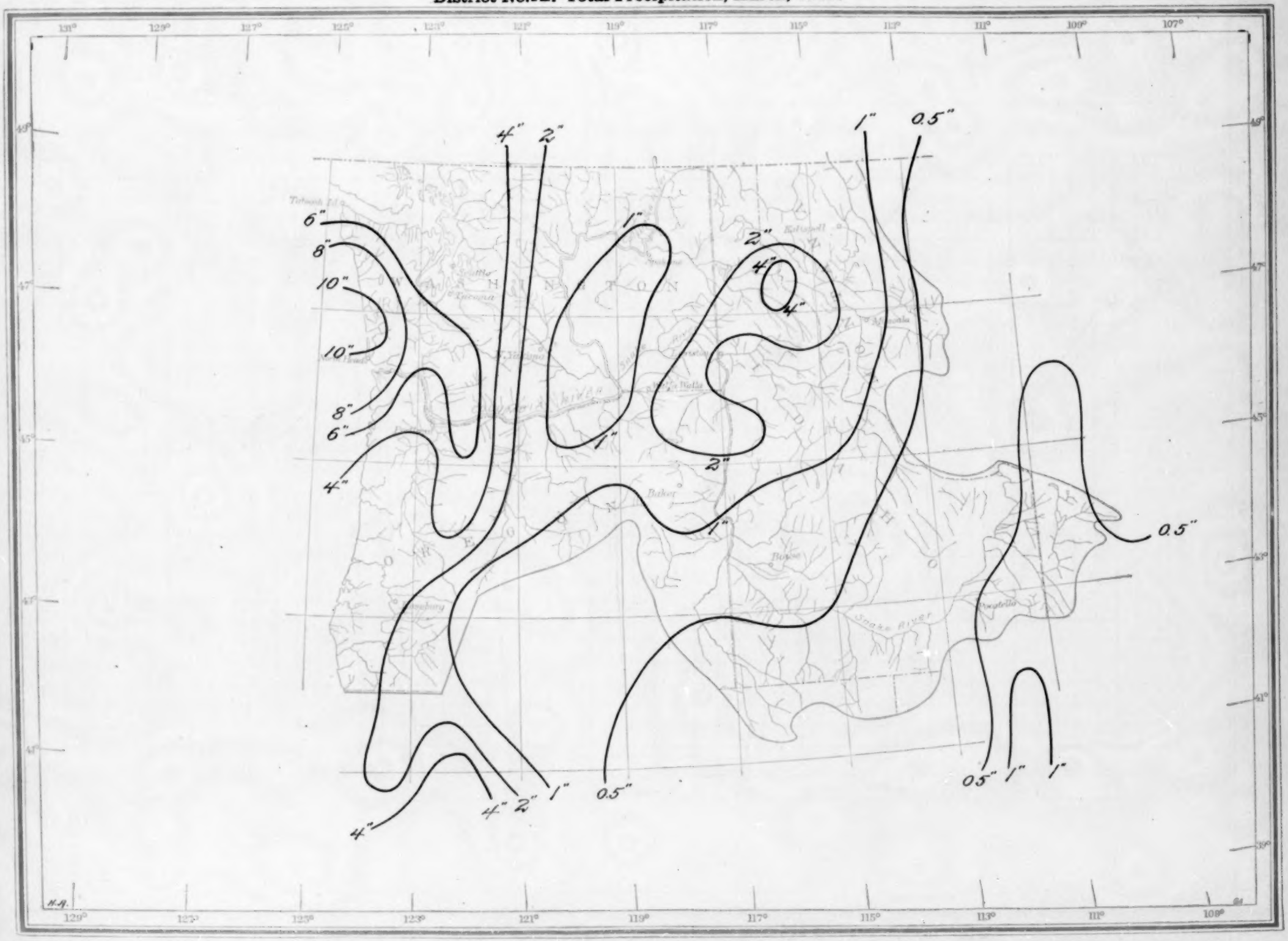


**District No.11.—Total Precipitation, March, 1910.**

District No.11.—Departure of the Mean Temperature from the Normal, March, 1910.



**District No.12.–Total Precipitation, March, 1910.**



District No.12.—Departure of the Mean Temperature from the Normal, March, 1910.

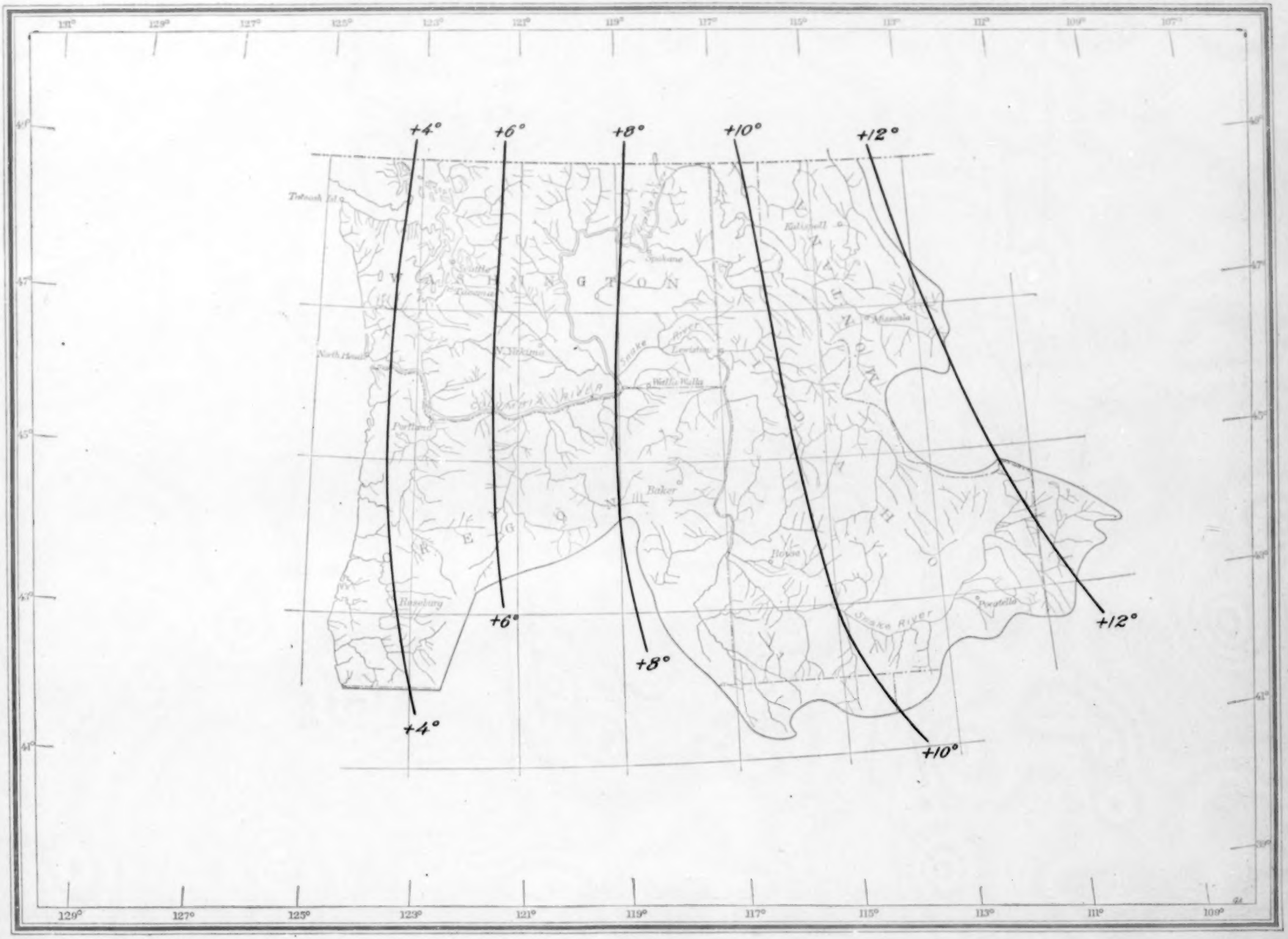
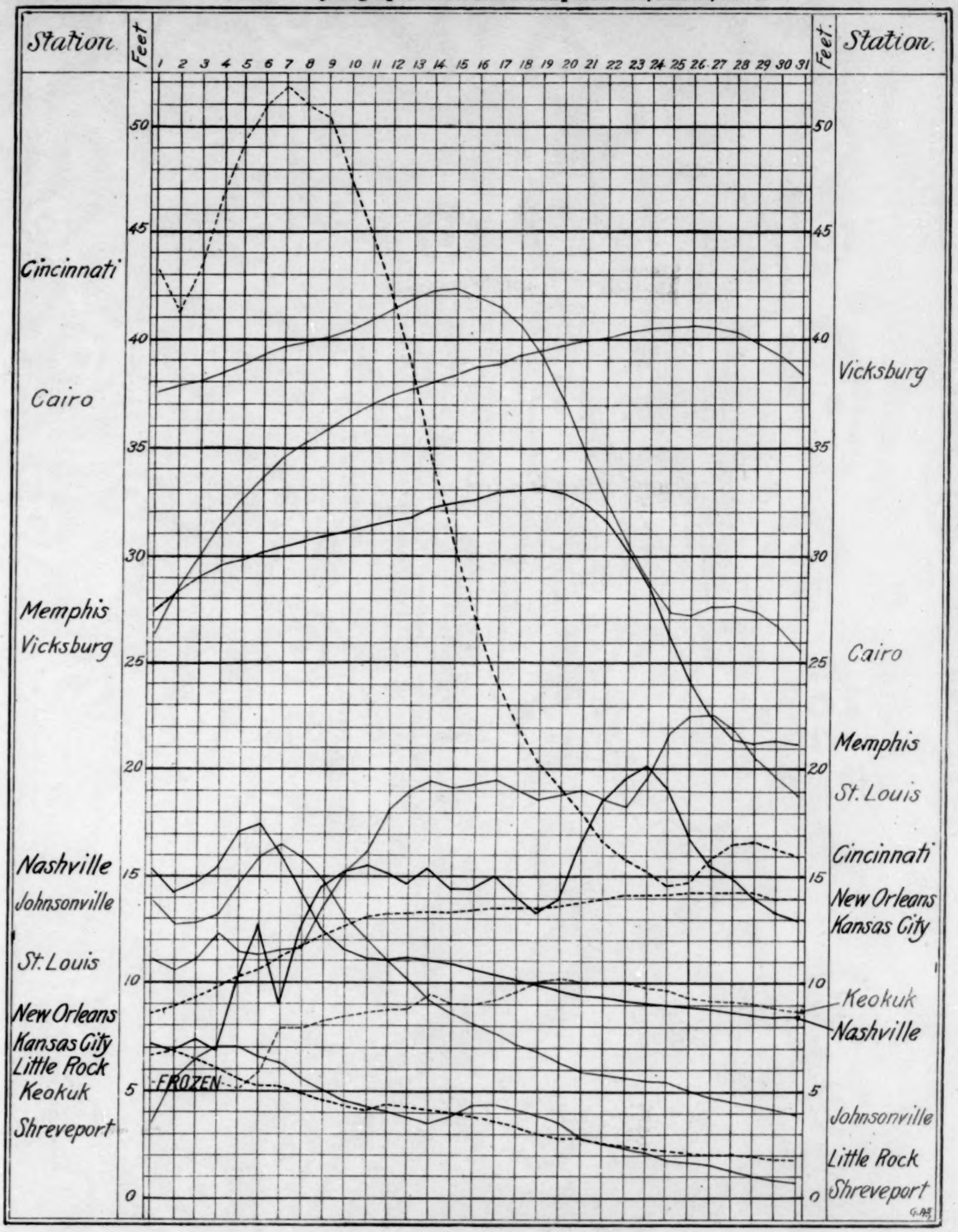
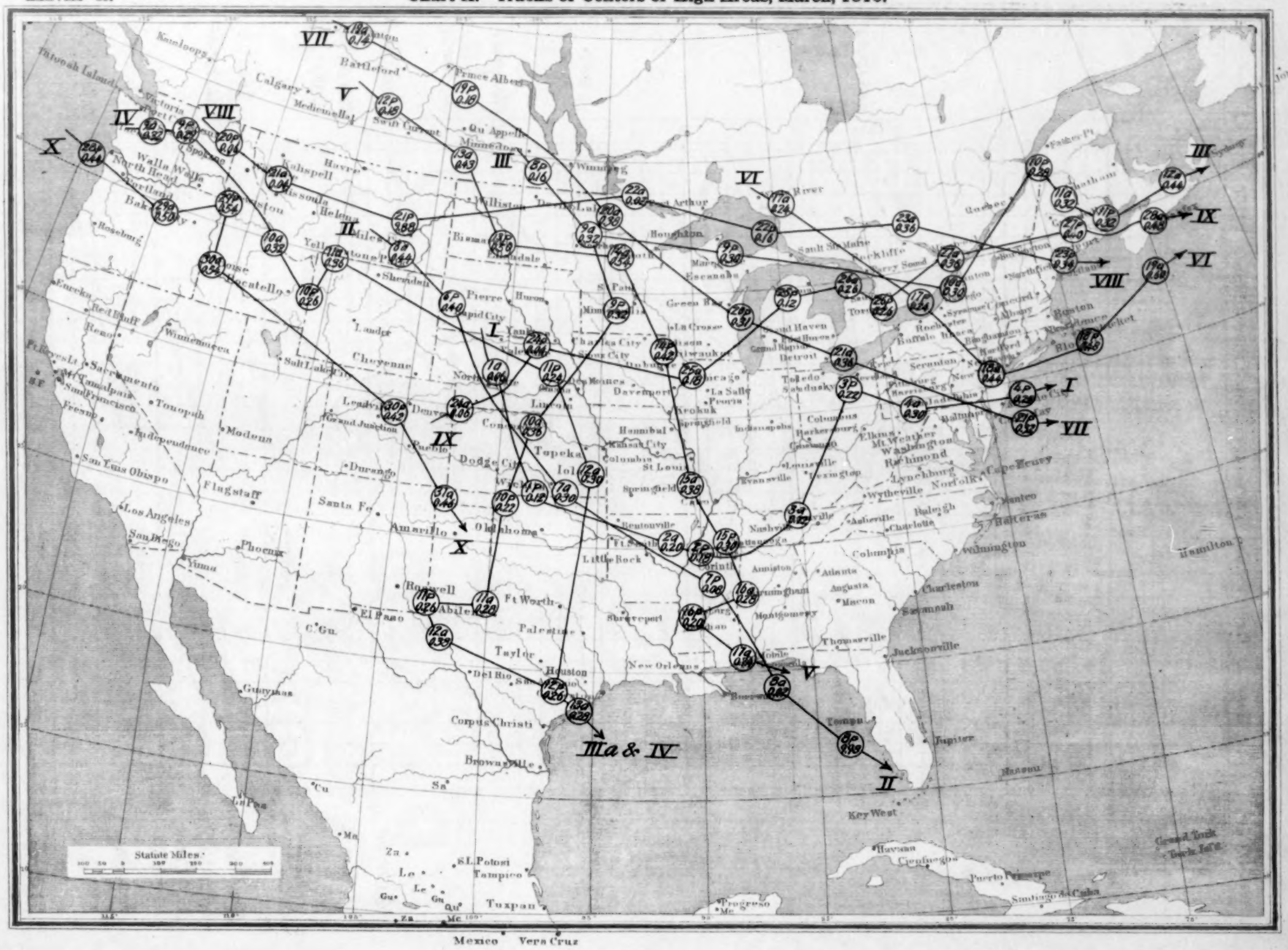


**Chart I. Hydrographs of Several Principal Rivers, March, 1910.**



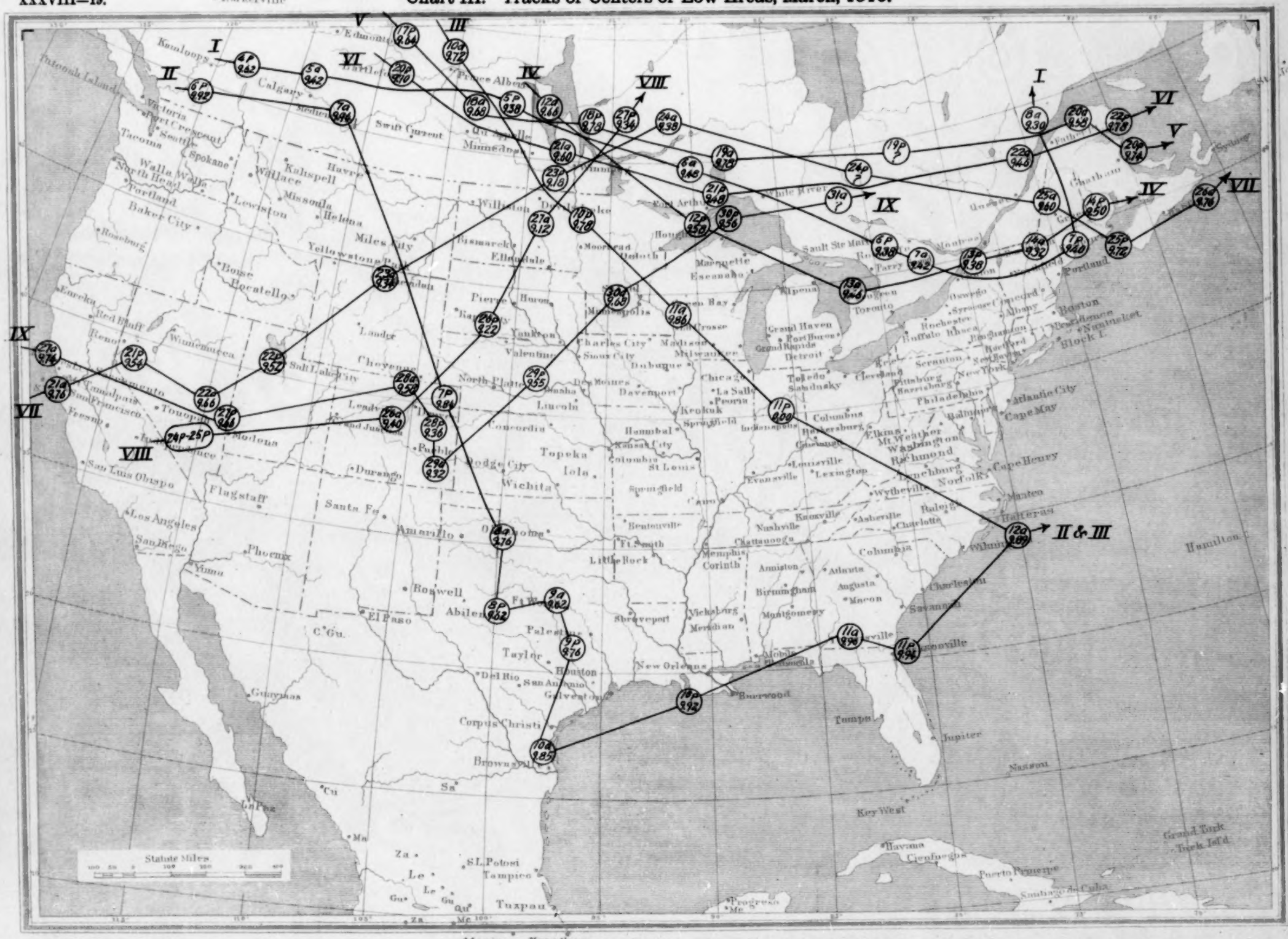
## Chart II. Tracks of Centers of High Areas, March, 1910.



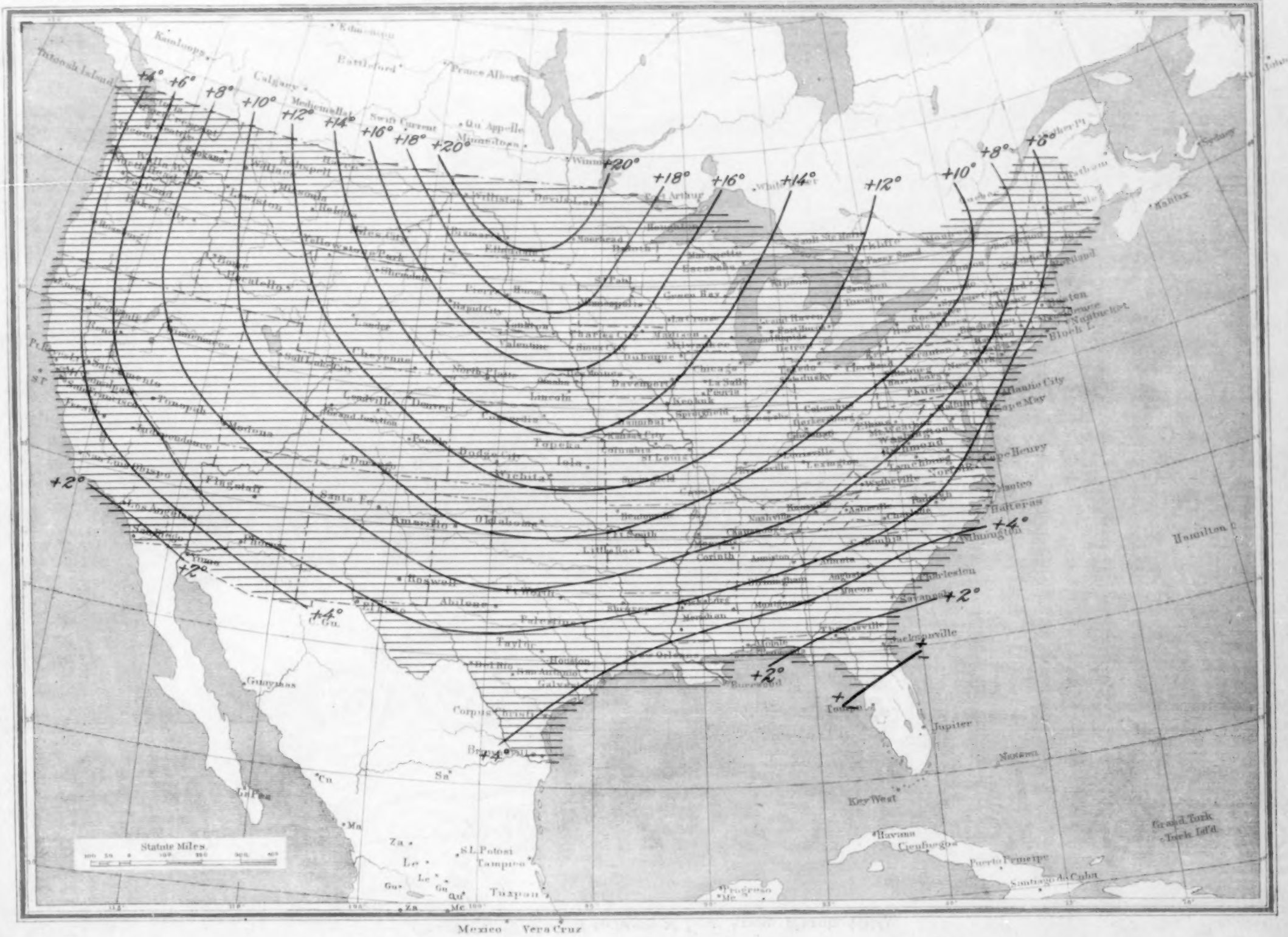



## Chart III. Tracks of Centers of Low Areas, March, 1910.

## Chart III. Tracks of Centers of Low Areas, March, 1910.



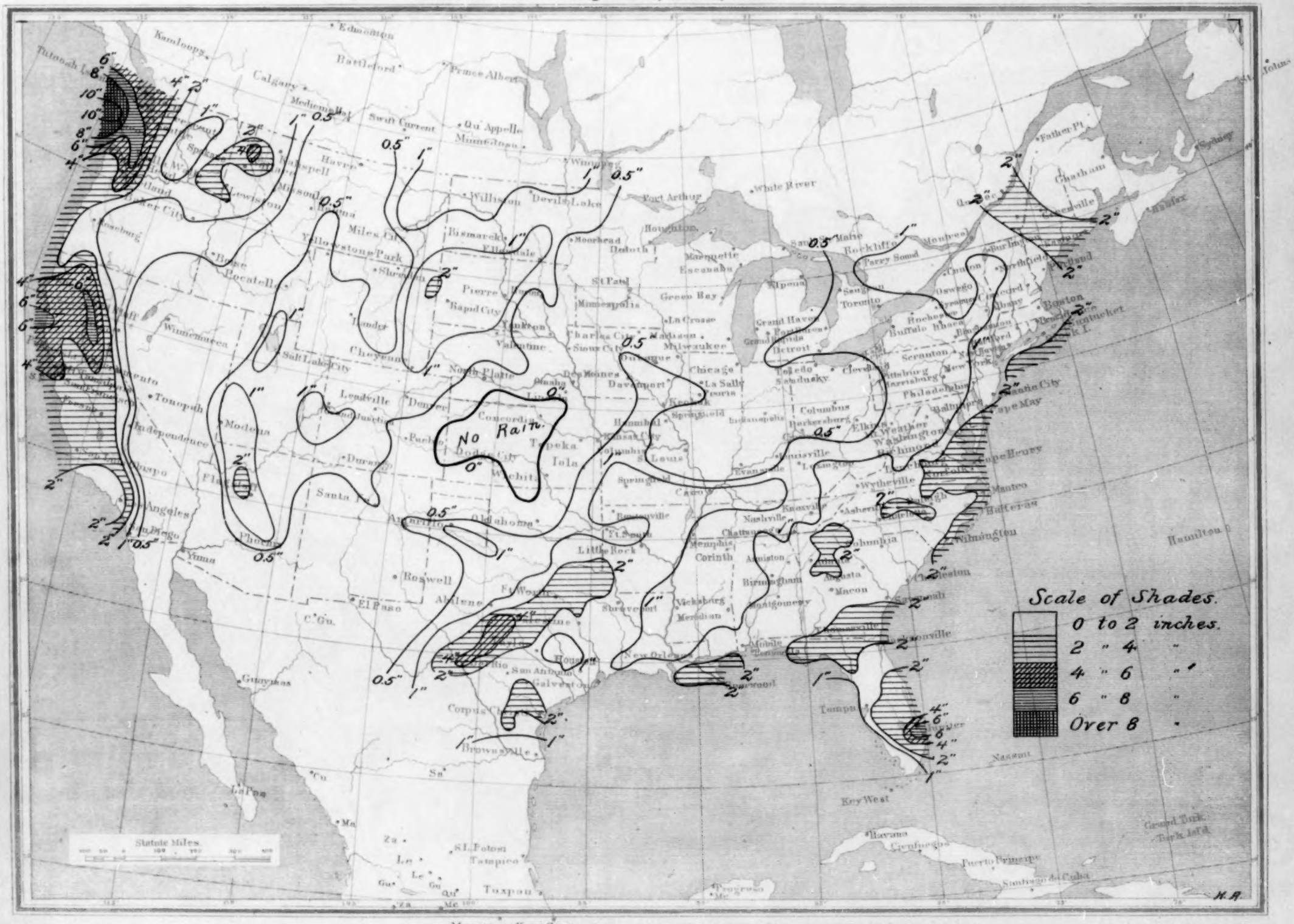
## Chart IV. Departure of the Mean Temperature from the Normal, March, 1910.



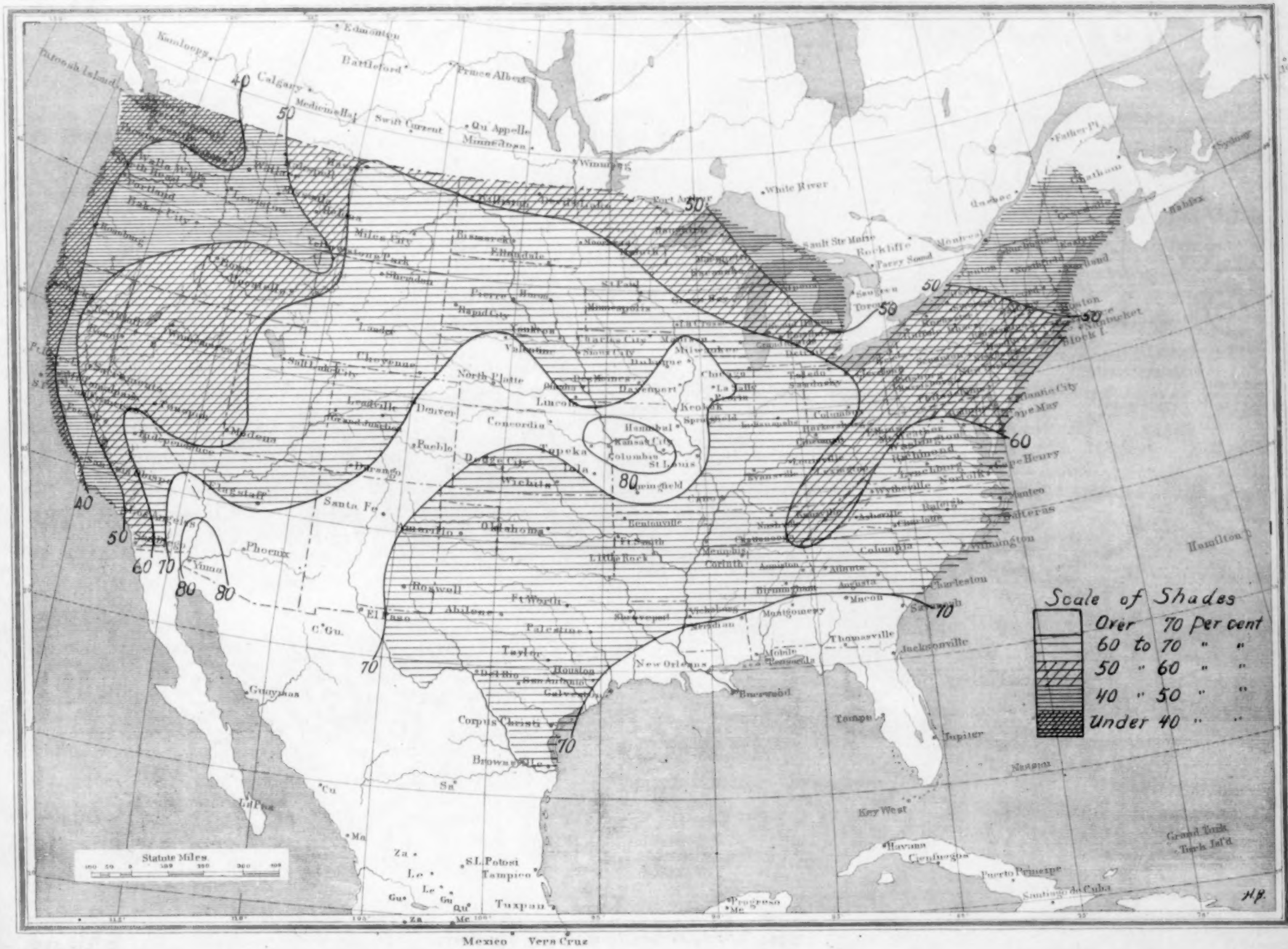



## Chart V. Total Precipitation, March, 1910.

## Chart V. Total Precipitation, March, 1910.



## Chart VI. Percentage of Clear Sky between Sunrise and Sunset, March, 1910.

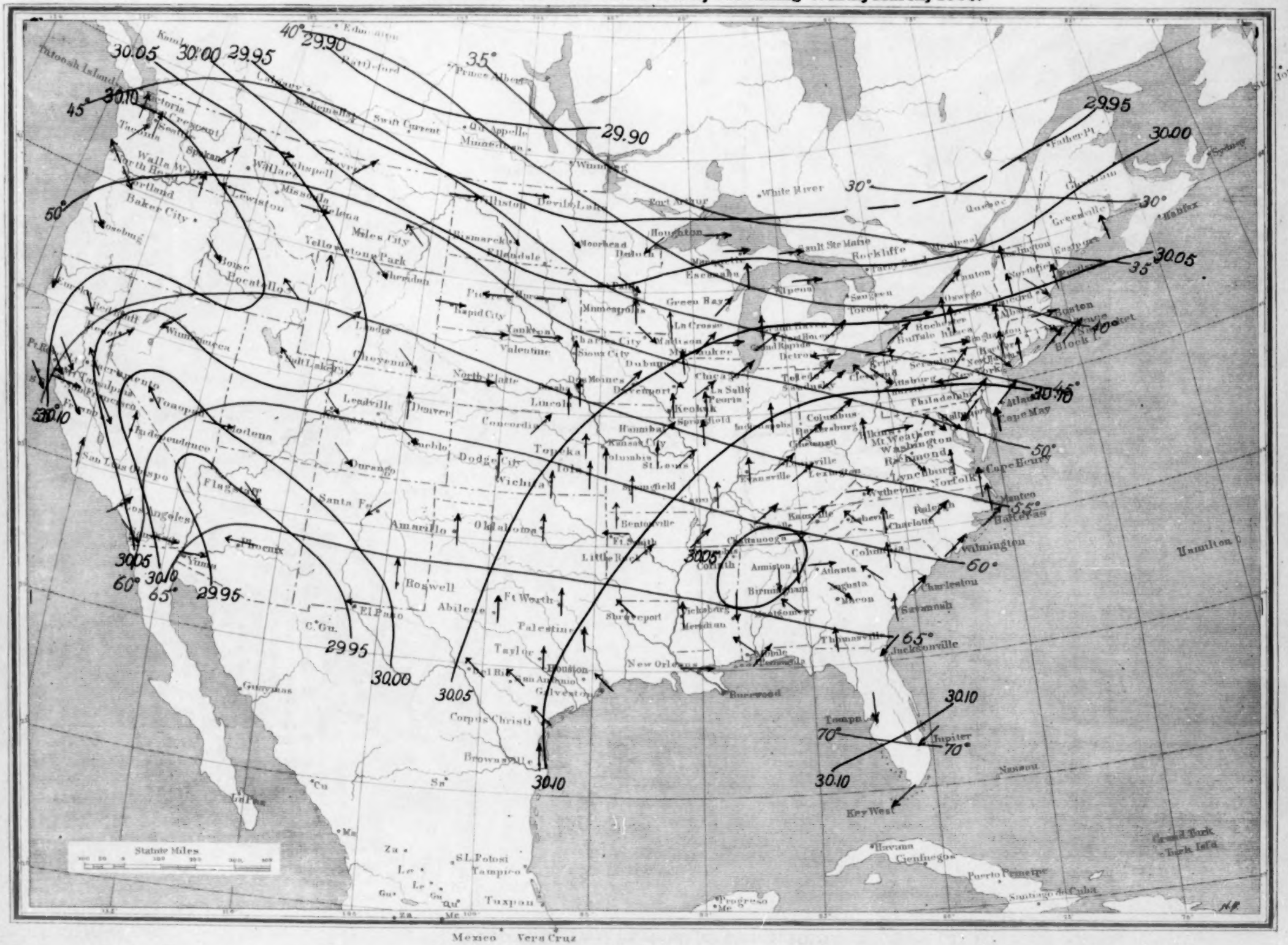




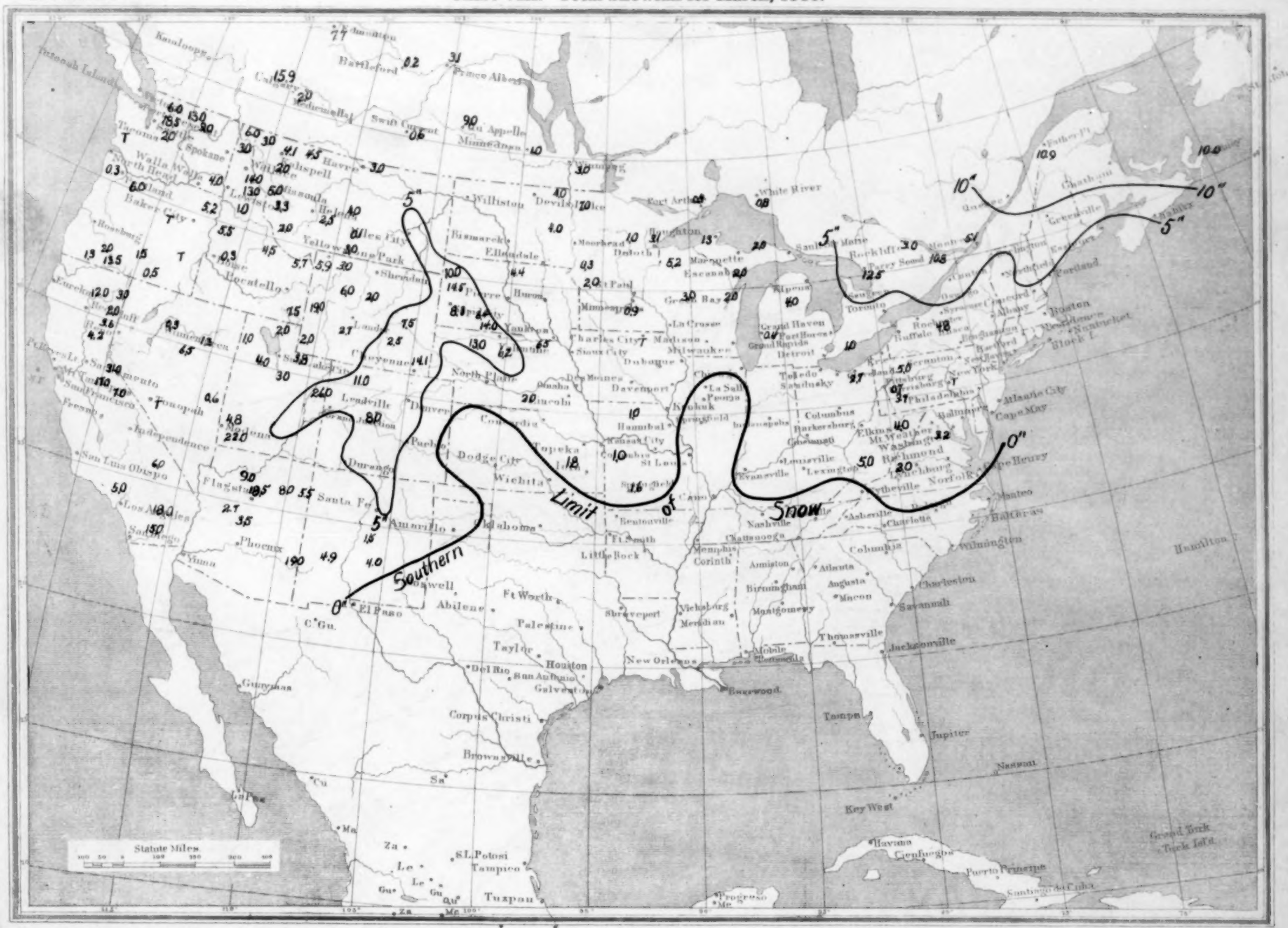

## Chart VII. Isobars and Isotherms at Sea Level; Prevailing Winds, March, 1910.

Barkerville

**Chart VII. Isobars and Isotherms at Sea Level; Prevailing Winds, March, 1910.**



# Chart VIII. Total Snowfall for March, 1910.

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